

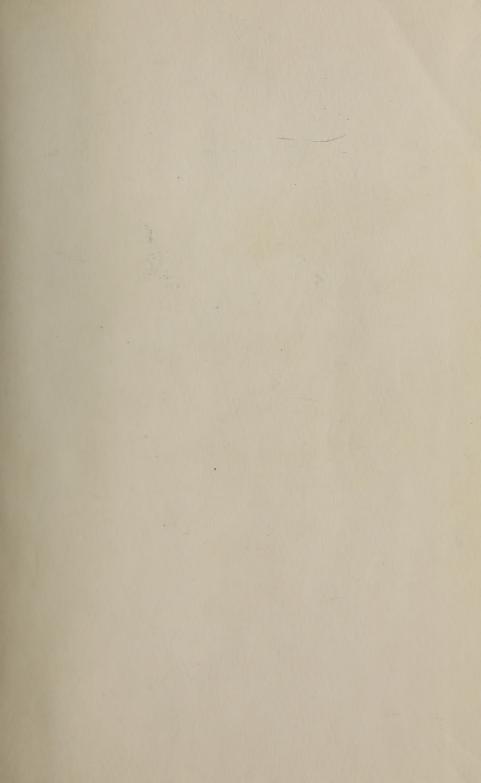
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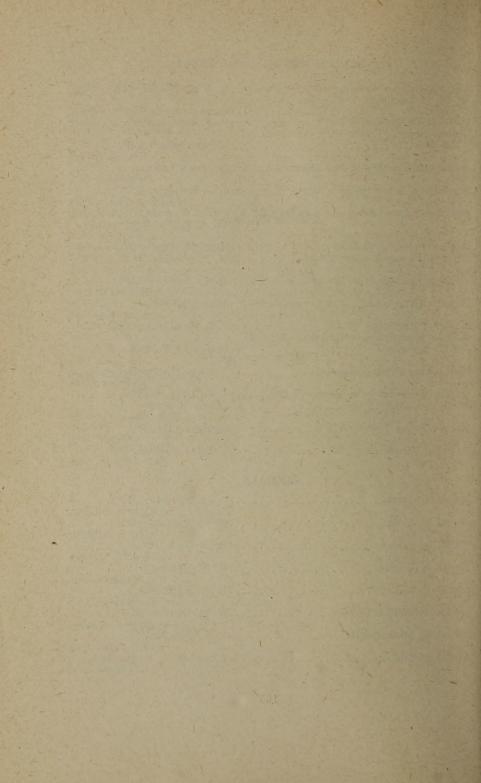


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QUEEN'S UNIVERSITY AT KINGSTON

KINGSTON ONTARIO CANADA





Queen's Unibersity

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR

OF

THE FACULTY OF ARTS

EIGHTY-FIFTH SESSION 1925-26

CALENDAR CHANGES

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Queen's University Library

KINGSTON, ONTARIO

Queen's Unibersity

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR

OF

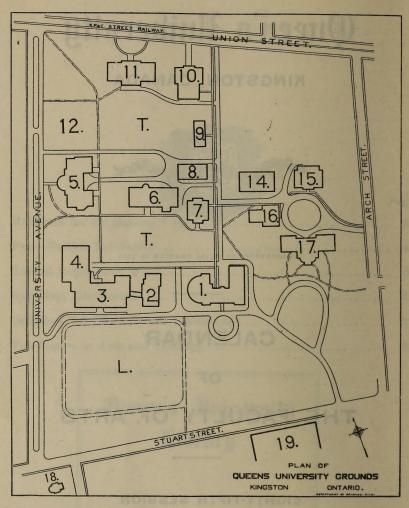
THE FACULTY OF ARTS

EIGHTY-FIFTH SESSION

1925-26

KINGSTON
PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS

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1, Theological Hall, containing on the first floor the Biological Laboratories and the Museum; and on the second floor Convocation Hall. 2, Destroyed. 3, Kingston Hall or New Arts Building. 4, Grant Hall. 5, Ontario Hall (Physics, Geology, Mineralogy). 6, Fleming Hall (Electrical Engineering). 7, Carruthers Hall (Civil Engineering). 8, Mining Laboratory or the Mill. 9, Mechanical Laboratory. 10, Nicol Hall (Metallurgy). 11, Gordon Hall (Chemistry). 12, Douglas Library and Offices of Administration. 14, Gymnasium. 15, Medical Laboratories. 16, Medical Building. 17, Principal's Residence. 18, Observatory. 19, Kingston General Hospital. T, Tennis Courts. L, Small Athletic Field. The main Athletic Field with the George Richardson Memorial Stadium is one block west of University Avenue.

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THE ACADEMIC YEAR*

THE EIGHTY-FIFTH SESSION of the University will begin on Wednesday, September 23rd, 1925, at 8 a.m. Convocation will be held on Wednesday, May 5, 1926.

1925

- May 15—Written notice due at the Registrar's Office of candidates' intention to compete for Matriculation Scholarships.
- July 7-Registration for Summer School.
- July 8-Summer School opens at 8 a.m.
- July 15—Last day for receiving applications, accompanied by fee, for September examinations, or degrees, from intra-mural and extra-mural students.
- Aug. 19-Summer School closes at noon.
- Sept. 5-Arts Supplemental examinations begin.
- Sept. 10—Last day of registration for extra-mural students without extra fee.
- Sept. 17—Last day of registration for extra-mural students with extra fee.
- Sept. 18-Registration of Kingston intra-mural students begins.
- Sept. 19-First day for general registration in Arts.
- Sept. 22—Last day for registration of intra-mural students without extra
- Sept. 23-Classes open in Arts at 8 a.m.
- Oct. 2—Last day of registration for intra-mural students who have not previously obtained from the Faculty permission to register later.
- Oct. 20—Last day upon which applications for Rhodes Scholarships will be received.

^{, *}The term "Academic Year" used in connection with Regulations and Courses of Study refers to the period extending from October 1 to September 30.

[†]The fee for late registration is \$3 on September 23, with an additional fee of \$1 for each day after that date up to October 2.

- Nov. 1—Last day for receiving applications, accompanied by fee, from extra-mural students for December examinations.
- Dec. 1—First day upon which extra-mural students may transfer to intra-mural classes.
- Dec. 16-Mid-year examinations begin.
- Dec. 21—Last day for receiving applications for the Robert Bruce Bursary.
- Dec. 23-Christmas holidays begin at noon.

1926

- Jan. 6-Classes re-open at 8 a.m.
- Jan. 15—Last day for receiving applications from candidates for the M. C. Cameron Scholarship in Gaelic.
- Feb. 19 to Feb. 22 (inclusive) Mid-term vacation.
- Mar. 1—Last day for receiving applications, accompanied by fee, from extra-mural students for the April examinations, and for degrees.
- Mar. 15-Last day for receiving applications and fees for degrees.
- April 1—Last day for receiving manuscripts for University Prizes and applications for Arts Research Scholarships.
- April 2-Good Friday: a holiday.
- April 7-Class work closes at 5 p.m.
- April 9—Last day for extra-mural students to add classes for the Summer Session without extra fee.
- April 12—Examinations begin.
- April 17—Last day for extra-mural students to add classes for the Summer Session with extra fee.
- May 3—Statutory meeting of the Senate for awarding Standing, Prizes, Medals, Honours, and Degrees.
- May 5—Convocation for conferring Degrees, announcing Honours, and distributing Prizes and Medals.

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TIME TABLE OF LECTURES

When a Science class has only one or two lecture periods a week, the class number is followed by a designation of the day or days of meeting (M=Monday, Tu=Tuesday, etc.)

No.4 04	bat, at	11		21, Tu, Th	71, Tu, Th 75 hf, Tu, Th 101, Tu, Th	25a, 38b	27a, 29b, 11b		15, Tu 18, Tu, Th		13b	9 10 90	2, 10a, 50a 31b	2	7b, Ast. 1	2, 48a	1 17b,Tu,Th 21a.Tu,Th	The special section is a second
Thurs and	Tunk, and	10		2, Tu, Th	71, Tu, Th 75 hf, Tu, Th 101, Tu, Th	1, 64a 65b, 5	20b,6(a or b 40a,	2 (B), 13b 19a	10, Tu, Th	B, 25a, 26b	1, 10a,	00-041-7	zua, zib, 4	13a,20b,10b			10, Tu Th 14b, Tu Th	A Company of the Comp
Classoc hold on Tune Thus and Cat	eld ou Tues.	6		1 (Sec. ATu) 2, Tu, Th (Sec. BTh)	41, Tu, Th	66a, 21b, 67b, 16a	2(B) 22a, 41a,4a,24b	1 (C), 15	13, Tu, Th	1, 24b	A, 11a, 12b,14a	10 10 101	16, 18a, 19b			13, 1u, In	2	A
d sossol)	Classes II	∞		11,M, 22a,W 10a, 10b,Tu 23b, W 18, Th	45, Sat.	11b, 17a 52a,42b,54b	1	1, (Med.)		A			T		2, 16b, 15a			
- 1	rri. at	11		11,M, 22a,W 23b, W	21, W, F 141b, M, F 61, M, F	62a, 63b	18a, 36b 50b, 33a	16a, 17b	1, 15, W	11a		. 1	3, 15a	27b,17b,12a	10a, 11b	12, F 25, 46b	16a 20b, M, W	A
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beld or Mer	Classes neld on Mon.,	6	12b, W, F 10a, W, F	15a, M, W 12a, M, W 13b, M, W	1 171a, M, F	24a, 36b 50a, 53b	2(A), 14b 10a	1 (A & B)	2	3a		0,	12	Hours to be arranged 25a,22b,23b 1	17b,18a,13a	1		
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			logy		у										tics	yy		Spanish
			Bacteriology	Biology	Chemistry	Economics	English	French .	Geology	German	Greek .	Hebrew	History .	Latin	Mathematics	Philosophy	Physics .	Spanish

TIME TABLE OF LABORATORY WORK

The numbers in parentheses indicate the hours; an asterisk indicates another section on Saturday, 9-12.

The manners in	The common that	The named of the contraction in the course and the course and the course and the course of the cours	and the state of t	momor section on	Sacarday, 9-12.
	Mon.	Tues.	Wed.	Thur.	Fri.
Bacteriology		10a (1-3) 12b (1-3)		10a (1-3) 12b (1-3)	
Biology	1 (Sec. A, 2-4) 2 (2-4) 11 (2-4) 15a (1-4) 10a, 10b (2-4)	1 (Sec. B, 2-4) 18 (2-4) 22a (2-4) 23b (2-4) 28 (2-4)	1 (Sec. A, 2-4) 28 (2-4)	1 (Sec. B, 2-4) 23b (2-4) 28 (2-4) 18 (2-4) 22a (2-4)	10a, 10b (2-4) 11 (2-4) 12a (2-4) 13b (2-4) 21 (2-4)
Chemistry	171a (1-4) 61(Sec. A, 1-4) 71 (1-4)	41 (1-4)	2 (1-4) 21 (1-4) 71 (1-4) 121 (1-4)* 141b (1-4)	1 (1-3) 31 (1-2) 45 (1-4) 111 hf. (1-4), 61 (Sec. B, 1-4) 133 hf. (1-4)	101 (1-4) 106b (1-4) 133 hf. (1-4)* 31 (1-5)
Geology	,	14 (1-3)			
Mineralogy		1 (1-3)	11 (1-4)		12 (1-3)
Physics	17b (2-4)	A.1 (Sec. A, 1-3 A.1 (Sec. B, 3-5) A.2 (Sec. B, 3-5) or 3-5 A.10 (3-5) A.2 (Sec. A, 2-4) A.12 (3-5) A.11a (3-5) A.14b (3-5)	A.1 (Sec. B, 3-5) A.2 (Sec. A, 2-4) 20b (2-4) 21a (2-4)	A.2 (Sec. B, 3-5) A.12 (3-5) A.13b (3-5)	

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada, in connection with the Church of Scotland, for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68, however, the withdrawal of the Provincial grant, and the failure of the Commercial Bank, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers, chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant, who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under him the University gained rapidly in size and prestige. By 1881 Queen's had a new building, an enlarged staff, and a great increase of students. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position, but continued in office until the autumn of 1917, when Rev. R. Bruce Taylor, M.A., D.D., LL.D., was appointed as his successor.

In 1854 the Medical Faculty of Queen's was established. It was re-organized in 1865 as the Royal College of Physicians and Surgeons

in affiliation with the University, but in 1891 the original status was resumed. Excellent facilities for clinical work are provided in the General Hospital, Hotel Dieu, Rockwood Hospital, and the Mowat Memorial Hospital.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but Courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed, however, in 1894, as similar facilities were offered in Toronto and elsewhere.

The School of Mining was founded in 1893 under an Ontario Charter. For several sessions all its departments were housed in Carruthers Science Hall, which had been erected in 1889, but in view of the rapid growth of the School the Provincial Legislature in 1900 provided for its accommodation two large buildings, Ontario Hall for the Departments of Physics, Geology and Mineralogy and Fleming Hall for the Departments of Civil, Mechanical and Electrical Engineering. More recently the Provincial Government erected Gordon Hall, which is entirely used for the teaching of Chemistry, and, through the generosity of Professor Nicol and other graduates, Nicol Hall has been built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining, which since 1893 had been under the control of a separate Board, was in 1916 amalgamated with the University, and now constitutes its Faculty of Applied Science.

In 1907 the Ontario Government established at Queen's a Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building); Carruthers Hall (Civil Engineering); Kingston Hall (New Arts), the gift of the city of Kingston; Grant Hall, erected by the students to the memory of the late Principal Grant; Ontario Hall (Physics, Geology, and Mineralogy); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Metallurgy); the Medical Building; the Medical Laboratories Building; the Gymnasium; the Observatory; the Douglas Library, named in memory of Dr. James Douglas, a former chancellor of the University, who contributed \$150,000 to its cost; Ban Righ Hall, the new residence for women, erected

through the efforts of the Alumnae Association. The Province of Ontario besides its generous gifts of Ontario, Fleming and Gordon Halls, referred to in an earlier paragraph, contributed \$150,000 to the Douglas Library and \$125,000 to the new Central Heating and Power Plant.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened, until finally in 1912, as the result of an amicable arrangement between the Presbyterian Church and the Trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control.

The endowment of the University at present amounts to \$1,791,495, of which about \$900,000 was obtained in 1918-19. To this sum the late Chancellor Dr. Douglas contributed \$500,000 and the Carnegie Corporation \$250,000. In recent years the Province of Ontario has steadily increased its grants, and the annual income of the University, derived from all sources, is now over \$500,000. The registration of students has grown from 665 in 1900 to 2895 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of the Chancellor, the Principal, and the Rector; one representative from each affliated college; representatives as provided for by the Statutes from the University Council, the Benefactors, the Graduates; and members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances, to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general to attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own numbers.

The functions of the Council are:

- (1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.
 - (2) To elect six trustees, two of whom shall retire annually.
- (3) To make by-laws governing the election of the Rector by the registered students, of four trustees by the benefactors, of six trustees by the University Council, and of six trustees by the graduates.
- (4) To discuss all questions relating to the University and its welfare.
- (5) To make representation of its views to the Senate or the Board of Trustees.
 - (6) To decide on proposals for affiliation.
- (7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for memberships, registration and voting.

THE SENATE

The Senate consists of:

The Principal.

The Vice-Principal.

The Principal of Queen's Theological College.

The Dean of the Faculty of Arts.

The Dean of the Faculty of Medicine.

The Dean of the Faculty of Applied Science.

Three Professors elected by the Faculty of Arts.

Three Professors elected by the Faculty of Applied Science.

Three Professors elected by the Faculty of Medicine.

Two Professors elected by the Faculty of Queen's Theological College.

The Functions of the Senate are:

- (1) To determine all matters of an academic character which concern the University as a whole.
- (2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.
- (3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair, or Course of Instruction in the University.
- (4) To be the medium of communication between the Alma Mater Society and the Governing Bodies.
- (5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.
 - (6) To publish the University Calendars.
 - (7) To conduct Examinations.
 - (8) To grant Degrees.
 - (9) To award University Scholarships, Medals, and Prizes.
- (10) To enforce the Statutes, Rules, and Ordinances of the University.
- (11) And generally, to make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARDS

The Faculty Boards are constituted as follows:

For the Faculty of Arts and for the Faculty of Applied Science, the Dean, Professors, Associate Professors, Assistant Professors, and Lecturers of each Faculty have power to meet as separate boards, and to administer the affairs of each Faculty under such regulations as the Board of Trustees may prescribe.

For the Faculty of Medicine, the Dean, Professors, Associate Professors, and Assistant Professors have power to meet as a separate board, and to administer the affairs of the Faculty under such regulations as the Board of Trustees may prescribe.

The Principal is ex-officio president and a member of each of the Faculty Boards. In his absence from the Arts Faculty, the Vice-Principal shall preside. In his absence from the Medical Faculty, or from the Faculty of Applied Science, the Dean of the Faculty shall preside.

The Functions of the Faculty Boards are:

- (1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.
- (2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.
- (3) To submit to the Senate names for both ordinary and honorary degrees.
- (4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.
- (5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate.
 - (6) To deal with class failures.
 - (7) To exercise academic supervision over students.
- (8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.
 - (9) To award Faculty Scholarships, Medals, and Prizes.
- (10) To appoint such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.
- (11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

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EQUIPMENT AND SPECIAL FACILITIES

THE LIBRARY

The University Library was removed from the Old Arts building to the new Douglas Library building during the summer of 1924. The new building provides one large reading room, three smaller ones, a number of conference rooms, exhibition room and offices for the library staff.

In the main reading room will be found a collection of some 5,000 volumes of general reference works on open shelves. The main collection is shelved on five tiers of book-stack, occupying the centre of the building and under the main reading room. The general library now comprises in excess of 150,000 volumes as well as many original manuscripts and prints.

The system of classification used is that of the Library of Congress. Seven hundred and fifty journals and other serials are being currently received.

In addition to the general library there are departmental libraries for physics; chemistry; mining and metallurgy; geology and mineralogy; civil, mechanical and electrical engineering.

The library of the Medical Faculty is now located in the Douglas Library building and has its own reading room. It is administered by the staff of the general library.

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana.

The Shortt-Haydon Collection of portraits and views relating to Canada is the second finest collection of its kind in existence.

THE MUSEUMS

The Biological and Ethnological Museum has a large Botanical collection illustrating fully the flora of North America, Europe, Asia, South Africa, and Australia; a Zoological collection representing the Canadian fauna by a large number of prepared specimens of mammals, birds, reptiles, fishes, insects, and mollusca; and an Ethnological collection of weapons, utensils, dresses, and ornaments.

The Geological and Mineralogical Museum, which is situated on the ground floor of Ontario Hall, has a large collection of minerals, ores, rocks, and fossils, arranged to illustrate most of the subjects treated in the lectures.

THE LABORATORIES

The Biological laboratories are in Theological Hall, and are provided with material for dissection and with microscopes and other instruments.

The Chemical laboratories are in Gordon Hall. On the third floor are two laboratories for General Chemistry, one for Medical Chemistry, and one for Electro-Analysis. On the second floor are two for Quantitative Analysis, one for Organic Chemistry, one for Food and Water Analysis, and one (not yet equipped) for whatever future development demands. On the first floor are three for Qualitative Analysis, one for Industrial Chemistry, one for Physical Chemistry, one for Gas Analysis, one for Spectroscopy, and one dark room for Photography. Besides these there are small separate laboratories for research work.

The Physical laboratories are in the southern half of Ontario Hall. Two of the large rooms on the first floor are devoted to the more elementary laboratory work of the first and second years and a commodious room on the second floor is arranged as an electrical laboratory for

EQUIPMENT

advanced work. Various smaller rooms are fitted for special purposes. One of them is for work in Physical Optics—Spectrometry, Polarimetry, and Spectroscopy. Another is well equipped as a dark room for Photography. A third is arranged for X-ray and photometric work. Other rooms are used as private laboratories.

THE OBSERVATORY

The Observatory has a transit room, a computing room, and an equatorial room with revolving dome. The equatorial telescope has a six-inch objective, declination and right ascension circles, and a driving clock. The transit has a three and a half inch objective. The further equipment consists chiefly of a striding level, a chronograph, a mean time clock, and a sidereal time clock.

FACILITIES FOR FIELD WORK

Geology and Mineralogy. In the vicinity of Kingston a greater variety of economic minerals and metalliferous ores is mined than in any similar area in Canada. Through the kindness of the managers the various mines may be visited by the Geology and Mineralogy classes, and students may thus obtain valuable information concerning field conditions.

Botany. The great diversity of land surface in the vicinity of Kingston enables the students of Botany readily to make field studies of the various plant associations. Within two miles of the city limits are extensive reed marshes, bordered by water gardens well stocked with the swimming and submerged societies of plants. A drive of eight miles permits the study of an excellent example of sphagnum moor, with all the plants of our latitude characteristic of muskeg conditions. An hour's

drive in another direction reaches a region of high, dry, granite hills where xerophytic modifications dominate the flora. A carefully preserved mesophytic meadow with a forest plantation is within walking distance of the University.

FACILITIES FOR ATHLETICS

The University provides ample facilities for athletics. An excellent gymnasium, equipped with shower-baths, large swimming pool, running track, and all apparatus for physical training, stands in the University grounds. Beside the gymnasium is a large covered skating rink. A block from the University is the football field, with the George Richardson Memorial Stadium given by Mr. James Richardson in memory of his brother, Captain George Richardson, a Queen's graduate and a former athlete, who was killed in the Great War. There is room and equipment for all students who wish to take part in football, hockey, basketball, tennis, track athletics, swimming, boxing, fencing, or wrestling.

GENERAL INFORMATION

DEGREES

By the Royal Charter granted to Queen's College, it is "willed, ordained, and granted that the said College shall be deemed and taken to be an University, and that the students in the said College shall have liberty and faculty of taking the degree of Bachelor, Master, and Doctor in the several Arts and Faculties."

The degrees at present conferred under the statutes of the University are as follows:

I.--HONORARY DEGREES

Doctor of Divinity, D.D.; Doctor of Laws, LL.D.

II.--DEGREES BY EXAMINATION

1.-In Arts

Bachelor of Arts, B.A.; Master of Arts, M.A.; Doctor of Philosophy, Ph.D.; Bachelor of Comerce, B.Com.

2.—In Theology

Bachelor of Divinity, B.D.

3.—In Medicine

Doctor of Medicine, M.D.; Master of Surgery, C.M.; Diploma of Public Health, D.P.H.; Doctor of Science, D.Sc.

4.-In Science

Bachelor of Science, B.Sc.; Master of Science, M.Sc.

HOODS

Each Degree has its distinctive hood, as follows:

B.A.—Black, bordered with red silk.

B.Com.—Black, bordered with green silk.

M.A.—Scarlet.

B.D.-White, bordered with crimson plush.

M.D. and C.M.—Scarlet, bordered with white.

B.Sc.-Black, bordered with yellow (old gold) silk.

D.D.—Black silk, lined with white silk.

M.Sc.—Black, lined with yellow, bordered with yellow.

D.Sc.-Yellow silk, bordered with black.

LL.D.—Black silk, lined with blue silk, bordered with blue.

Ph.D.—Black silk, lined with purple, bordered with white.

EXTENSION LECTURES

Members of the staff are prepared to lecture at outside points on a great variety of subjects. The lectures are specially suitable for University extension work, for courses of study planned by various organizations, and for teachers' conventions. A complete programme of lectures and full information on any point connected with them will be supplied upon application to the Registrar, Queen's University.

DEAN OF WOMEN

The Dean of Women will assist the women students in planning their courses, give them information and help of other kinds, and advise them in all matters in which they may feel the need of counsel.

The Dean may always be reached by correspondence addressed to her at the University. During the session she may be consulted at her office in Kingston Hall, or at Ban Righ Hall, the Women's Residence.

ACADEMIC DRESS

Women students are expected to wear academic gowns at lectures in the New Arts Building.

EXPENSES

At the present time the average student pays for table board from \$5.00 to \$6.00 a week, and for room from \$2.50 to \$3.50 a week.

See FEES for other expenses.

BOARDING HOUSES

Lists of Boarding Houses for men students may be obtained from the Registrar.

Women students are not permitted to lodge in houses in which men are lodging. A list of approved houses where suitable accommodation is provided for women students will be furnished on application to the Registrar.

The new Women's Residence, Ban Righ Hall, will be open for session 1925-26.

PHYSICAL WELFARE OF STUDENTS

Every student is required upon registration to contribute \$4 towards a health insurance fund which the University will use to provide medical care for those who are ill. Details of the plan will be available at registration.

All students in their first year are required to take physical training for two hours a week. They are examined by the University physician, who prescribes proper exercises to correct physical defects.

The correct gymnasium costume for women students consists of a navy blue tunic with blue girdle, close-fitting black knickers, white sport shirt, black stockings and white gymnasium shoes (Oxfords). This costume may be bought after coming to the University, but those wishing to make it up at home may obtain information from Miss Alice Roy, Queen's University, at any time during the summer.

ATTENDANCE AT CHURCH

All students are expected to attend a church of the denomination to which they belong.

During the session, Sunday services are conducted in the University by representatives of different denominations who are invited to preach to the students, professors, and visitors.

STUDENT SELF-GOVERNMENT

Queen's was the first University in Canada to introduce student self-government. All students are members of the Alma Mater Society, the chief instrument of student government, and are expected to share in its duties and responsibilities.

THE OFFICERS' TRAINING CORPS

The Queen's Contingent was formed at the outbreak of the Great War under Lieutenant-Colonel A. B. Cunningham, and was formally organized February 1, 1915. It now consists of two companies under the command of Colonel A. Macphail, C.M.G., D.S.O. The course of training, which begins in November, leads up to Certificate A, qualifying for the rank of Lieutenant, and Certificate B, qualifying for the rank of Captain in the Canadian Militia. Students who enroll in their first year and attend the necessary number of parades are excused from physical training.

REGISTRATION

All students are required at the beginning of each session to have their names entered upon the University Register.

Intra-mural students must register in person, paying full fees for the session. Those registering before the opening of the session will be charged the regular fee, but those registering on or after the first day of session will be charged an extra fee of \$3. In addition, those who have not previously obtained permission to defer registration must pay a special late fee of \$1 a day from September 24 to October 2. No student may register after October 2 unless he has obtained special permission.

For Extra-mural registration see REGULATIONS REGARDING EXTRA-MURAL WORK.

ADMISSION TO THE FACULTY OF ARTS

1. Candidates desiring to enter the Faculty of Arts should make application during the summer on forms supplied by the Registrar.

The application should be accompanied by matriculation or other certificates.* These will be returned when the candidate's standing is determined.

I.—ADMISSION BY MATRICULATION

- 2. Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. Details regarding these examinations may be found in a separate publication entitled REQUIREMENTS FOR MATRICULATION. This also contains a list of the Matriculation Scholarships and the conditions of award.
- 3. The Matriculation examinations are of two grades, elementary and advanced, called respectively Pass and Honour Matriculation.

A. Pass Matriculation

4. The subjects of Pass Matriculation are as follows: Latin, English, History, Mathematics, and any two of the following: Greek, German, French, Spanish or Italian, Experimental Science (Physics and Chemistry) or Agriculture.

Two papers are set in each of the six subjects and the pass standard is fifty per cent. in each paper.

5. A candidate who presents a certificate of Pass Matriculation will be admitted to the first year in Arts and may expect to graduate in four years.

B. Honour Matriculation

6. Honour Matriculation examinations are held in the following subjects:

^{*}Candidates holding certificates from the Department of Education of Ontario should send their certificates to the Registrar, Queen's University, in order to have standing allowed. Candidates holding certificates from Departments of Education outside of Ontario should write to the Departments concerned asking that their marks be sent to the Registrar, who will then advise regarding the standing allowed.

Latin (two papers), English (two papers), Modern History (one paper), Mathematics (Algebra, Geometry, Trigonometry, and Problems, one paper in each), Greek (two papers), German (two papers), French (two papers), Spanish (two papers), Physics (one paper), Chemistry (one paper), Biology (one paper in each of Zoology and Botany).

The pass standard is fifty per cent. in each paper.

- 7. Subject to the modifications in section (a), (b) and (c) a candidate who enters with Honour Matriculation credits will on payment of the pro tanto fee be allowed all subjects up to five in which he has made fifty per cent. on each paper.
- (a) Only a pro tanto allowance will be given in Physics 1, Chemistry 1, Biology 1 to students proceeding to course 2 in these subjects. The Departments concerned will grant exemption from all or part of the first year in these classes on presentation of evidence regarding the work previously covered. Ordinarily, however, the only exemption is from class attendance and the student must do the laboratory work and pass the examinations, though at the same time he may take course 2.
- (b) Students, allowed English 1 on Honour Matriculation who in the judgment of their instructors in English 2 need further work in English Composition will be required to take English 4a as an extra class.
- (c) Mathematics 1 may be granted on any two papers of Upper School Mathematics to a candidate who will not proceed to higher work in that subject, or take Physics 2 or Chemistry 41.
- 8. A candidate with Honour Matriculation in four or five subjects may expect to graduate in three years if he is on a Pass Course.
- 9. Students who are subject to the requirements of 7 (a) or (b) will be allowed to register for five other courses in a year.
- 10. Students who desire credit towards a degree on work done outside of the University must pay a pro tanto fee of ten dollars.

II.—ADMISSION BY EQUIVALENT EXAMINATION

A .- Examinations Equivalent to Pass Matriculation

. 11. The following certificates are accepted for Pass Matriculation in the subjects which they cover provided that 50% has ben made in each paper.

B. Examinations Equivalent to Honour Matriculation

12. The following certificates are accepted for Honour Matriculation in the subjects which they cover:

Alberta	.Grade XII.
British Columbia	.Senior Grade.
Manitoba	First Class.
New Brunswick	.Grammar School.
Newfoundland	. Associate Grade.
Nova Scotia	. Grade XII.
Ontario	.Upper School.
Prince Edward Island	. Honour Diploma of Third Year,
	Prince of Wales College.
Saskatchewan	.First Class, Fourth Form High
	School.

III.—ADMISSION BY SPECIAL REGULATION

- 13. In the case of students who present certificates showing that they are over the age of twenty-one, the Senate may postpone the Matriculation examination. Except by special permission of the Senate and upon recommendation of the Faculty of Medicine or of Applied Science, such unmatriculated students will not be admitted to the first year in Arts for the purpose of proceeding to a course in Medicine or Science.
- 14. A candidate who has not passed the Matriculation examination in Latin, or in Greek, German or French, or in Mathematics, must as a

general rule attend the Preparatory course in such subject for one session and pass the University or equivalent matriculation examination before being admitted to the regular first year course in that subject. Those, however, whose previous work in a particular subject has almost reached the matriculation standard may be admitted to course 1 as conditioned students with the understanding that if their work is not satisfactory to the Department concerned they may at any time be required to drop course 1 and take course A.

Students admitted with a condition in any subject must pass course 1 in that subject in order to remove the condition.

REGULATIONS REGARDING EXTRA-MURAL WORK

All inquiries regarding regulations should be addressed to the Registrar.

In order to meet the needs of students who are unable to do all their work in residence, of teachers in actual service who wish to improve their professional qualifications in certain subjects, and of those persons in general who, though unable to attend the regular classes, are yet desirous of pursuing particular studies under competent direction, the University conducts a system of extra-mural instruction. This work is as nearly as possible identical with that taken up by the intra-mural students and the same examinations are set for all. Candidates who fulfil at least the minimum requirements of residence and otherwise comply with the conditions stated below may qualify for the various degrees to which their Courses lead.

Conditions of Admission to Extra-mural Work

- 1. In order to register for the first time extra-mural students must be twenty-one years of age and residents of Canada. Students residing outside of Canada, however, who have attended the University for one session or who have taken work extra-murally for one session are allowed to complete their Course.
- 2. Fully matriculated students under twenty-one years of age may be allowed to register on satisfying the Faculty that they are unable to attend the University until a later date.

A student over twenty-one years of age who is not a candidate for a degree or diploma may register without matriculation standing in any course in which he desires to improve his scholarship, provided that he can satisfy the Board of Studies of his ability to proceed with the work desired.

- 3. Except with the permission of the Board of Studies, no one is permitted to take work at Queen's in the same year as he is taking work at any other educational institution or writing on any outside examination other than Pass Matriculation.
- 4. An intra-mural student may become an extra-mural student only by special permission of the Faculty. A student registered intra-murally in the winter session will not be allowed to continue his course extramurally in the following summer, unless by special permission he has

been allowed to postpone one or two courses until the summer. In such case, however, he must attend the Summer School. But any student may, in preparation for the September Supplemental examinations, register for instruction in courses in which he failed in the sessional examinations of the previous December or April, if they are offered extramurally in the summer.

Registration in Extra-mural Courses

- 5. Application for registration must be made on forms supplied by the Registrar, and must satisfy the conditions stated in section 6. They must reach the University by the dates mentioned in section 7; and they must be accompanied by the fees specified in section 8.
- 6. (a) An extra-mural student may not register for more than four courses in the academic year. He may register in the winter (September-April) for as many as two courses or four half-courses, and in the Summer* (April-September) for two courses or three half-courses.
- (b) The courses selected in each year are subject to approval of the Board of Studies and, in the case of candidates for degrees, must conform to the regulations for concentration, distribution, and sequence of work.
- (c) Only such courses may be taken as the various departments offer to extra-mural students. The number of such courses varies with the department and is much greater in the winter than in the summer. Students in the sciences must do the laboratory work either at the Summer School or in the regular University session.
- (d) Courses 1 and 2 in any subject except History, Economics, and Philosophy must be taken in different academic years.
- (e) Before registering a student should consult the time-table of lectures, as he must not register in two classes which meet at the same hour. The winter time-table is given in the Arts Calendar, and the summer time-table in the Summer School announcement.
- 7. (a) Extra-mural students should register two or three weeks before the session opens in order that they may receive the preliminary instructions and provide themselves with books in time to start work promptly. They will be allowed to register up to September 10 for the winter or April 10 for the summer at the regular fee, and up to September 17 or April 17 on payment of an extra fee of \$3. Only under

^{*} The Calendar is issued in the Spring but it is not in force until the following autumn. Summer work, therefore, is based on the Calendar of the preceding winter.

exceptional circumstances and by special permission of the Faculty will registration be accepted after these dates.

- (b) Extra-mural students cannot receive the examination returns before the last date of registration but should send fees to the Registrar within the required dates, stating the classes in which they wish to register if successful in their examinations. Necessary changes may be made later.
- 8. The fees payable upon application for registration are as follows:
- (a) Registration. A registration fee of \$10 must be paid once in each year (October 1-September 30) and an extra fee of \$3 for late registration as provided in section 7 (a).

If a student registers in the autumn he has an opportunity of taking courses in the winter and in the following summer on one registration fee; if he registers in the spring his fee will cover summer work only.

A student may register in the autumn for all the courses he intends taking in the academic year or he may register only in those which he intends to complete in the winter, leaving the rest to be added in April.

- (b) Tutorial. The Tutorial fee is \$10 for each course and \$5 for each half-course (indicated in departmental prescriptions by the letter a or b after the number.) If the required amount of work in a course is not completed in the session, winter or summer, in which it is begun, the tutorial fee must be paid again, and the full work of the course sent in. See also section 22b.
- (c) Pro Tanto. A student desiring to have courses credited on work done elsewhere must pay a pro tanto fee of \$10 at the time of his first registration.

Minimum Residence Requirements

The University does not undertake to make it possible for a student to get a degree if he merely satisfies the minimum residence requirements given below, since in some subjects only a limited amount of instruction can be given extra-murally or in the Summer School. In the Sciences, for example, all the laboratory work must be done at the University and a student specializing in these subjects may find it necessary to spend two or three years in residence. The various departmental prescriptions indicate the parts of work offered extra-murally. Candidates should examine these prescriptions in connection with the Regulations for Concentration.

- 9. Candidates for a degree must take at least nine courses in attendance at the University, either during regular Winter sessions or at the Summer School. Candidates for an Honour degree must attend during at least one regular Winter session. In most cases an Honour Course will require much more than this minimum time. Examinations must be passed after each session's work.
- 10. Candidates for Specialists' and Inspectors' certificates must attend at least two full sessions or, under the direction of the University, one full session and at least two sessions of the Summer School. In the case of teachers of at least ten years' experience who have had eminent success as certified by the local Inspector and approved by the Chief Inspector, the Department of Education is willing to accept attendance of four years at the Summer School as covering requirements for the Inspectors' Course.

Manner of Conducting Extra-mural Classes

(See also section 22)

11. The method of giving extra-mural instruction necessarily varies with the subject. Detailed information is contained in the instruction sheets provided from time to time. These specify the prescribed reading, assign exercises and essays to be written, and in some cases give the substance of intra-mural lectures. The first instalment of work is sent to the student as soon as he registers. The date of each essay or exercise coming in and of each criticism or fresh piece of work going out is recorded at the Registrar's Office. Each essay or exercise is promptly examined and returned to the writer with criticisms and suggestions.

Students should address their work and all enquiries regarding their work to The Director of Extension Courses, Queen's University, Kingston, Ontario.

Regularity of Work

- 12a. Exercises for the Winter session must be sent in by the dates specified or they will be returned unmarked and without credit.
- 12b. Exercises for the Summer session will not be accepted if more than two weeks late. Students attending the Summer School who have not completed eighty per cent. of the assigned work before entering will not be allowed to write the September examinations.

Transference from Extra-mural to Intra-mural Classes

13. Extra-mural students may become intra-mural students during the winter session at any time after December 1, in those courses in which they have satisfactorily completed the work prescribed up to the

date of their transferring. Fees already paid will be applied on intramural charges.

14. Students who transfer to intra-mural work before January may add enough "b" half-courses to give them five classes in the second term, if such half-courses are available and the pre-requisite work has been done.

Library Facilities for Extra-mural Students

- 15. Extra-mural students are expected to buy all text-books prescribed. They should also make generous provision for the purchase of other books bearing on their work, as the Library cannot undertake to provide enough duplicates to serve the needs of students not in residence.
- 16. Three books may be borrowed at one time, provided that no two relate to the same piece of work. Unless a special arrangement is made, a book may be kept only two weeks from the date on which it is received.
- 17. Special arrangements are made for supplying the necessary books to extra-mural students in the Ph.D. Courses.
- 18. Extra-mural students must send to the Librarian a deposit of \$2 for the use of one book at a time, \$4 for two books, and \$5 for three. Books may be exchanged as often as the borrower wishes; and when all are returned, the deposit, less the amount spent for postage, will be repaid on request. No fee is charged for the use of the Library.
- 19. All communications concerning books and deposits must be addressed to The Librarian, Queen's University, Kingston, Ontario.

Regulations Regarding Examinations

Intra-mural and extra-mural examinations are the same in all subjects and are held at the same time. It is impossible, therefore, to modify the examination schedule to suit the personal convenience of students.

- 20. Examinations are held in December, April, and September, as follows:—
- (a) Examinations in all half-courses of the first term are held during the last week before Christmas. These examinations are final and may not be postponed till April or September.
- (b) Examinations in all whole courses and in half-courses of the second term are held at the end of April. Examinations in Pass courses may be postponed till the autumn, but such postponement will lessen the amount of new work which may be completed in September.

- (c) Examinations in Pass courses and in all work offered in the summer are held in September. Ordinarily an extra-mural student may not write in September on more than two courses or three half-courses. He may write on three courses, however, if examinations in one or more have been postponed from April.
- 21. Applications for examination in the particular subjects upon which a student proposes to write, accompanied by the proper fees, must reach the Registrar's office by November 1 for the December examinations by March 1 for the April examinations, and by July 15 for the September examinations. The fees are \$3.00 for each half-course examination and \$6.00 for each whole course examination, with an additional charge of \$3.00 for late application, if accepted.

If the Registrar receives notice, at least ten days before the beginning of examinations, that a candidate will not write on a subject for which he has applied, the fee paid will be credited to him after the deduction of an administrative charge of two dollars.

22a. No student will be admitted to examination in any subject in which he has not fulfilled the requirements as to date of registration (see section 7a) and regularity of work (see sections 12a and 12b). Candidates must send in all the essays and at least eighty per cent. of the exercises at the dates specified as a condition of coming up for examination. The last of the written work should reach the University at least two weeks before examinations begin.

22b. If in any session, summer or winter, a student does not complete the required work in a course, he must register again, pay all the fees and do all the exercises.

23a. A student who fails in course 1 or 2 in any subject (in course 1, 2 or 3 in the case of History) must pay the tutorial fee again and do all the work of the course before being admitted to examination.

23b. Extra-mural students who make less than twenty-five per cent. in the examination on any other course must repeat the tutorial work in that course unless excused by the Director of Extension Courses acting on the advice of the Department concerned.

24. If a student who has completed the required work in a given subject wishes in some subsequent academic year merely to take the examination, he must pay the registration fee of \$10.00 as well as the examination fee specified in Section 21. The registration fee is payable at the beginning of the session.

Students are warned that they postpone examinations at their own risk as no special papers will be set even if courses are discontinued or radically changed. If a candidate postpones an examination for two years, he must repeat the tutorial work unless excused by the Director of Extension Courses acting on the advice of the Department concerned.

- 25. Extra-mural students in any of the modern languages will be required to take an hour a week of oral work with one of the regular classes during their intra-mural residence, and pass an examination on such work. Students attending the summer School will be given an opportunity of completing this oral work in the languages offered in the Summer School.
- 26. Candidates for Honours in German, Spanish or French must satisfy the Department concerned as to their oral qualifications. When an examination is necessary it must be taken at the University. Practical examinations in Science must be taken at the University.
- 27. Examination centres have been established at most of the larger cities and towns throughout Canada and a list of such centres is sent to all extra-mural students several months in advance of the examinations. Those wishing to have new examination centres established must make application, accompanied by the special fee of \$10, by November 1 for December examinations, by March 1 for April examinations, and by July 15 for September examinations.

Determination of Standing

28. See sections 23 and 24 of GENERAL REGULATIONS in the Arts Calendar.

Fees for Extra-mural Students

- 29. A full statement regarding fees may be found under FEES.
- 30. Extra-mural students who enter as intra-mural students during the winter session will have their extra-mural fees applied on intra-mural charges. (See section 13.)
- 31. In no case whatever will refunds be made. In case of sickness, however, but under no other conditions, an application to have fees carried over will be considered if it is made within one month of registration and is accompanied by a doctor's certificate.
- 32. Cheques or drafts on any branch of the Bank of Montreal will be received at par. In other cases 15 cents per \$100 should be added to cover bank charges. Remittances should be made by Post Office or Express Order, by cheque, or registered letter.

Text-books

33. Texts may be obtained from the Technical Supplies Department, Queen's University, and Messrs. Uglow & Co., Kingston.

THE SUMMER SCHOOL

The sixteenth session of the Summer School begins at 8 a.m. on Wednesday, July 8, 1925, and closes at noon on Wednesday, August 19.

Students are expected to register on Tuesday, July 7, in order to be ready to attend classes on Wednesday.

Courses will be given in Latin, Greek, French, English, History, Philosophy, Economics, Mathematics, Physics, Chemistry, Biology, Mineralogy and Geology. By reason of daily lectures and almost individual instruction, it is possible to cover about half of the work done in the corresponding courses of the winter session.

The libraries and various laboratories are available for use as in the winter session.

Purpose of the Summer School

The Summer School offers University advantages to those who cannot attend the classes of the regular session.

It gives TEACHERS an opportunity to improve their scholarship in particular lines of study, to observe methods of teaching, and to become acquainted with books and equipment not ordinarily available.

It gives INTRA-MURAL students who have lost standing through illness or other causes an opportunity of qualifying for the September Supplemental examinations. Moreover, intra-mural students in their first or second years, who are unable to carry the required five courses, may, with the consent of the Board of Studies, take three or four courses in the winter and the rest extra-murally in the summer, provided that they attend the Summer School.

It gives Extra-Mural students an opportunity to take the oral work required in the modern languages, to do in the laboratories the practical work required in the Science courses, and to satisfy by attendance at five sessions the minimum residence requirements for the degree of B.A. (See sections 9 and 10 under REGULATIONS REGARDING EXTRA-MURAL WORK). Two sessions of the Summer School are accepted by the Department of Education as equivalent to one of the two winter sessions required for Inspectors' and Specialists' Certificates.

Admission

No examination is required for admission to the Summer School. The classes are open to all who desire to improve their scholarship or professional equipment. Candidates for a degree, however, must satisfy matriculation requirements before being admitted to the University work and examinations.

Summer School students who are candidates for a degree must register in April as extra-mural students under the usual regulations. But those who are merely repeating the work of the preceding regular winter session may register for the Summer School only.

No student working for credit is allowed to register for more than two courses or three half-courses in the Summer School unless he has special permission from the Board of Studies.

Examinations

No examinations are held in connection with the Summer School. Students desiring credit for their work should write at the regular University examinations in September. See sections 12, 20, and 22 under REGULATIONS REGARDING EXTRA-MURAL WORK.

Further Information

The Announcement of the Summer School, containing full details, concerning the work offered is published each year about April 1, and is supplied on application.

All inquiries concerning the Summer School should be addressed to The Registrar, Queen's University, Kingston, Ontario.

FEES

Cheques tendered in payment of fees should be certified by the banks upon which they are drawn.

INTRA-MURAL

The fees	specified	under th	e first	three	heads	are	payable	each	year
upon registro	ation.								

Tuition (including class fees, registration, December and April examinations and laboratory fees of first year)\$70 00 (For students who had begun an intra-mural course before session 1925-26 the tuition fee will remain \$54 for this year, and laboratory fees will be as formerly charged in all science courses.

Laboratory, (See note under Tuition).

Each whole course

Each half course

Fees:

Stud

Bach half course 0 00
Deposit for all courses in Science (unused portion will be
refunded at close of session):
Without Chemistry 5 00
With one course in Chemistry 10 00
With two or more courses in Chemistry 20 00
dent interests:
Men 15 00
Women 14 00
(Health Insurance, \$4; Athletics, \$5; special fee for Athletics

for 1924-25, \$3; Arts Society, \$3; Levana Society, \$2.)

5 00

The fees specified below are payable as they are incurred. Special Charges:

Pro tanto allowance of courses on work done elsewhere	10	00
Late registration (see also note, page 5)	3	00
Change of courses after registration	2	00
Preparatory courses in French and Latin, each	5	00
Late application—for examination or graduation	3	00
Special examinations given at the University when a		
regular examination is missed:		
One examination	5	00
Two or more examinations	10	00
Examinations at outside centres:		
Each whole course	6	00
Each half course	3	00

FEES 47

FEES 4	17
Supplemental examinations: 6 (Each whole course 3 (
Special students not paying full fees:	
Registration	00
Graduation:	
Bachelor of Arts (in Course) 10 (Bachelor of Arts ad eundem gradum 20 (Bachelor of Commerce 10 (Master of Arts 20 (Doctor of Philosophy 50 (Doctor of Science 50 (Extra Fee for degree in absentia 10 (00 00 00 00 00
EXTRA-MURAL	
The fees specified under the first two heads are payable upon regitration; the examination fees are payable at the dates given in section 2 of REGULATIONS REGARDING EXTRA-MURAL WORK.	
Registration:	
Regular fee (covering October-September)\$10 CLate registration	00 00
Tutorial:	
Each course	
Examination:	
Each whole course, April or September	00

Graduation:

The same fees are charged as in the case of intra-mural students.

48 FEES

SUMMER SCHOOL

	Extra-mural	students who	register	in April are	allowed a rebate on
the	full Summer	School tuition	of half	the tutorial	fees previously paid.

Full Summer School attendance		
(The full fee will be charged and a refund of \$10 made when the student is leaving).		
Athletics	3	0
Laboratory deposit as required of other intra-mural stude	nts	

SCHOLARSHIPS, PRIZES, AND MEDALS

I-MATRICULATION SCHOLARSHIPS

For a list of Matriculation Scholarships and the conditions of award see the publication entitled REQUIREMENTS FOR MATRICULATION.

II.—SCHOLARSHIPS IN ARTS

The Andrew Haydon Scholarship in Colonial History

Value \$50. Founded by Senator Andrew Haydon, M.A., '93, LL.B. Awarded on the results of the sessional examinations in the Pass class in Colonial History (History 3). Not to be held by any student unless in residence in the session following the award.

The W. M. O. Lochhead Scholarship in Economics.

Value \$50. Founded by W. M. O. Lochhead, M.A., '98, Kitchener, Ont. The Scholarship will be awarded to the student taking the highest standing in the sessional examinations and classwork in Economics 1, provided he is in attendance in some faculty of the University in the following session. It is not to be held twice by the same student.

The Adam Shortt Scholarship in Political Science.

Value \$50. Founded by G. W. Mason, Esq., K.C., in honour of Dr. Adam Shortt, formerly Professor of Economics. Awarded to the student taking the highest standing in Economics 2, provided he is in attendance in the following session and is registered in advance work in the Department of Political and Economic Science.

The P. D. Ross Scholarship in Commerce

Value \$150. Founded by P. D. Ross, LL.D., Ottawa. Awarded on the basis of the third year's work in the Commerce Courses, provided that the candidate is taking at least four full courses or their equivalent in the "Special Subjects" in Commerce and Administration and is one year from the date of his graduation in Commerce. Tenable during the student's fourth year, if it is taken intra-murally.

Alexander Laird Scholarship in English 1

Value \$50. Founded in memory of the late Rev. Alexander Laird by his brothers and sisters and awarded annually to the student who makes the highest marks in English 1. Tenable only by a student in residence in the session following the award.

The Ann Eliza Stafford Scholarship in Biology

Value \$40. Founded by T. T. Bower, Esq., Toronto. Awarded to a graduate with first class Honours in Biology who is competent to undertake research work in Physiology. The holder must be willing to devote himself exclusively to research and must carry on his investigations in the University laboratories for at least one year from the date of his appointment.

The Maclennan Scholarship in Greek

Value \$25. Given by the late Hon. Jas. Maclennan, LL.D., Toronto, to encourage the study of Greek in the University. Awarded on the results of the April examinations in Greek 2 to the best student who is proceeding to the Honour course in Greek. Not to be held by any student unless in actual attendance, and not necessarily to be awarded unless a sufficient degree of merit is shown.

The N. F. Dupuis Scholarship in Mathematics

Value \$60. This is one of three scholarships founded by the graduates of the University in honour of the late Professor N. F. Dupuis on the completion of his forty-five years' service as Professor in the University. The scholarship is awarded to the student who takes the highest standing in Mathematics 1 in the April examinations. Tenable only by a student in residence in the session following the award.

The William Moffat Scholarship

Value \$50. Founded by Dr. William Moffat of Utica and awarded annually to the student making the highest standing in first year Chemistry. The award will be made on the combined results of class work and examination, and students in both Arts and Science are eligible. Tenable only by a student in residence in the session following the award.

Robert Bruce Scholarships

Under provisions of the will of the late Robert Bruce of Quebec the University has established a Scholarship worth about \$75 in each of the Faculties of Arts, Applied Science, and Medicine. Until 1948 the award is limited to students of Scottish extraction.

The Scholarship in each Faculty will be awarded at the end of the first year to the student who has made the highest standing on the regular examinations of that year. One-third of the value of each Scholarship will be paid to the winner in each of the second, third, and fourth years of his Course provided that he is in attendance in the Faculty in which the award was made.

Arts '15 Scholarships

(The capital sum is not yet fully collected)

Present value \$33. Founded as a memorial by the class of 1915. Awarded annually in turn by the Departments of English, Mathematics, and History to the student with highest standing in two Honour courses taken in the third year. Tenable by a student in residence in the following year. Awarded in History in 1925, in English in 1926, in Mathematics in 1927.

S. J. Keyes Scholarship

Value \$100. Awarded to graduates of the Ottawa Normal School who have completed by extra-mural or extra-mural and Summer School work four courses selected from courses 1 and 2 in the various subjects; tenable by a student in attendance for the first time at a regular session of the University.

III.—SPECIAL SCHOLARSHIPS

A .- The Rhodes Scholarship

A Rhodes Scholarship is tenable for three years, and is of the value of £300 per annum. In addition a Scholar will receive until further notice an annual bonus of £50.

Scholarships will hereafter be thrown into open competition in each Province, subject to the following conditions:—

- 1. Candidates must be British subjects, with at least five years' domicile in Canada, and unmarried. They must have passed their nineteenth, but not have passed their twenty-fifth birthday, on October 1st of the year for which they are elected.
- 2. Candidates must be at least in their Sophomore Year at some recognized degree-granting University or College of Canada, and (if elected) complete the work of that year before coming into residence at Oxford.
- 3. Candidates must elect whether they will apply for the Scholarship of the Province in which they have acquired any considerable part of their educational qualification, or for that of the Province in which they have their ordinary private domicile, home, or residence. They must be prepared to appear before the Committee of Selection for the Province they select.

In each Province there is a Committee of Selection, in whose hands the nominations will rest. Candidates should apply before October 20 in each year to the Secretary of the Committee, N. S. Macdonnell, M. A., Sun Life Building, Toronto.

Method of Selection

In accordance with the wish of Mr. Rhodes, the Trustees desire that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainment, (2) his fondness for and success

in manly out-door sports, such as cricket, football, and the like, (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship, and (4) his exhibition during school-days of moral force of character and of instincts to lead and take an interest in his schoolmates." Mr. Rhodes suggested that (2) and (3) should be decided in any School or College by the votes of fellow-students, and (4) by the Head of the School or College.

Where circumstances render it impracticable to carry out the letter of these suggestions, the Trustees hope that every effort will be made to give effect to their spirit, but desire it to be understood that the final decision must rest with the Committee of Selection.

The following graduates of Queen's University have been awarded Rhodes Scholarships:

J. M. Macdonnell, M.A., 1905.
A. G. Cameron, B.A., 1906.
Norman S. Macdonnell, 1907.
Stanley Scott, B.A., 1911.
H. S. Smith, M.A., 1912.
A. G. Cumming, M.A., 1914.
K. E. Taylor, B.A., 1920.
H. R. MacCallum, B.A., 1920.

A. D. Winspear, 1922.

B.—The Science Research Scholarship

This scholarship of the annual value of £250 was founded by Her Majesty's Commissioners for the Exhibition of 1851, and is awarded to students who have given evidence of capacity for original research, and except in very special circumstances, are under 26 years of age.

A given number of Scholarships are awarded annually to students in *Canada recommended by the Universities approved by the Commission.

The nominee must be a British subject, must have been a bona fide student of Science for three years, must have been a student of this University for a full year immediately before his nomination, must be a student of this University at the time of his nomination (or he must have been a student at this University for a full year ending within twelve months prior to his nomination and since ceasing to be such student must have been engaged solely in scientific study), and must pledge himself not to hold any position of emolument while holding the scholarship without special permission from the Commissioners. He is recommended to the Commissioners by the Senate of the University. The scholarship may be held for two years, if the report of the first

year's work be satisfactory to the Commissioners, and in exceptional cases for a third year. In the absence of special circumstances, the scholar will not be permitted to conduct his investigations in the country in which he received his scientific education. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

The scholarship is payable quarterly in advance and a grant of £25 will be paid if a satisfactory final report is presented at the expiration of the scholarship. If in the opinion of the Commissioners it is necessary a scholar will receive an additional annual allowance not exceeding £30, and in some cases the fare from their University will be partially paid.

The following Science Research scholars have been appointed from Queen's University:

Norman R. Carmichael, M.A, 1894.
Thomas L. Walker, M.A., 1896.
Frederick J. Pope, M.A., 1898.
W. C. Baker, M.A., 1900.
C. W. Dickson, M.A., 1901.
C. W. Knight, B.Sc., 1904.
F. H. McDougall, M.A., B.Sc., 1905.
Campbell Laidlaw, B.A., M.D., 1907.
N. L. Bowen, M.A., B.Sc., 1909.
Walter A. Bell, B.Sc., 1911.
John R. Tuttle, M.A., 1913.
Robert C. Cantelo, B.Sc., 1915.
Douglas G. H. Wright, B.Sc., 1921.
R. H. F. Manske, M.Sc., Donald C. Rose, M.Sc., 1924.

C.—Arts Research Fellowships

The University has established two Fellowships of the value of \$500 and two of the value of \$250, open to men and women who have taken an Honour B.A. at Queen's or an equivalent degree elsewhere. At the discretion of the Committee on Arts Research one of the \$500 Fellowships may be awarded as a Travelling Fellowship, but with this exception the appointments are given only to those undertaking graduate studies at Queen's.

A student appointed to a Travelling Fellowship must submit and have approved a plan of study, and must present a report on his year's work within twelve months of his appointment.

A student appointed to a Fellowship within Queen's may be required by the Committee in consultation with the Department concerned, to undertake work of any of the following kinds: (a) Independent investigation, (b) Assistance in research work carried on by the Department, (c) Tutorial assistance not to exceed six hours a week.

The holder of a Fellowship may be required to report in lectures or in written form the results of any investigations carried on.

The holder of a Fellowship shall not be permitted to do any tutorial work except such as may be required of him by the Department in which his special studies lie. In no case shall tutorial work exceed six hours a week or entitle the Fellow to additional remuneration.

Applications must be sent to the Registrar, accompanied by evidence of eligibility, not later than April 1 of each year.

The Fellowships will be awarded only to candidates of distinction and promise.

D .- Scholarship of the Federation of University Women.

The scholarship of the Federation of University Women in Canada, value \$1,000, available for study or research work, is open to any woman holding a degree from a Canadian university. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

For all information address the Convener of the Scholarships Committee, Mrs. Duncan B. Gillies, 41 Dinnick Crescent, Toronto. Applications must be received not later than February 1st.

E.—Daughters of the Empire Overseas Scholarship

As part of their War Memorial the Imperial Order Daughters of the Empire offer in each province in Canada a scholarship for post-graduate study in Britain. At present a scholarship is offered in each province once in two years; it will next be awarded to an Ontario candidate in 1926, for study during the academic year 1927-1928. The value of the scholarship is \$1400, for one year.

These scholarships are subject to the following conditions:

(1) Candidates may be men or women. They must be British subjects, with at least five years' residence in Canada, and unmarried. Except in the case of a returned soldier, sailor or airman, they must have passed their 19th but not their 27th birthday in October of the year in which they begin their work in Britain. In the case of a returned man, he must not have passed his 29th birthday in October of the year

in which he begins his work in Britain. Each candidate must either hold a degree from a University or College in the province in which he or she is making application, or be in his or her final year in a course proceeding to a degree.

- (2) In each province a Committee of Selection will award the scholarship. Other things being equal, preference will be given to a returned man, his sister, son or daughter. The Committee will consider not only the academic record of the candidate, but his or her character, physical fitness, and promise.
- (3) Applications for this scholarship should be sent, before October 24th, 1925, to the Provincial Educational Secretary, I.O.D.E, Y.W.C.A. Building, Hamilton, Ontario, who will provide additional information about the scholarships.

The following graduates of Queen's University have been awarded Daughters of the Empire Overseas Scholarships:

Watson Kirkconnell, M.A., for the year 1921-1922. Hartley Munro Thomas, B.A., for the year 1923-1924.

F .- The Milton Hersey Fellowship in Chemistry

This Fellowship, of the annual value of \$500, has been endowed by Milton L. Hersey, M.Sc., LL.D., of Montreal. It is open to graduates of all universities and technical colleges.

The holder of this Fellowship shall carry on research work for the whole session and embody the results in a thesis. The research may take the form either of independent investigation or of assistance in an investigation carried on by some department. The Fellow may be required to undertake tutorial work not to exceed six hours a week.

Applications for Fellowships will be received by the Registrar up to May 1. If no appointment is made by that date, further applications will be received up to September 1.

IV.—PRIZES

In submitting literary articles or essays, candidates for prizes must observe the following regulations:

- 1. Competitive papers must be given to the Registrar not later than April 1.
- 2. Each paper is to bear a motto, instead of the author's name, and must have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the affect that it is his unaided composition.

- 3. The envelope attached to successful papers shall be opened and the writer's name made known at the Convocation at the close of the session.
- 4. Prizes will be awarded only to those productions which the examiners consider to be of sufficient merit.
- 5. All successful productions shall be the property of the University, and shall be at the disposal of the Senate.

Curtis Memorial Foundation

Value about \$70. Founded in memory of the late J. T. Curtis of Ottawa. Awarded in October to a graduate of that year (April or September), who has completed the degree course by extra-mural and Summer School work. The award is made by a special committee on the basis of scholastic ability, interest in athletics, and service to the Summer School.

Gowan Foundation No. I

Value \$25. Established by the late Sir James R. Gowan, K.C.M.G. Awarded for the best essay on *Occupational Groups and the Party System*.

Gowan Foundation No. II

Value \$25. Given by the late Sir James R. Gowan, K.C.M.G., for the best collection of Canadian Ferns and Fern Allies. The collection must be delivered before December 15.

Gowan Foundation No. III

Value \$25 in books. Established by the late Sir James R. Gowan, K.C.M.G. Awarded in Honours in Political Science.

Western Canada Prize

Value \$25. Given annually to the student from Western Canada who has been most successful in summer work and in promoting interest in Queen's Summer School.

Latin and Greek Composition Prizes

Two prizes, each of the value of \$10 in books, are offered for competition for the best composition in Latin and Greek respectively. Subjects for composition, 1925-26: Latin Prose, Dill, Roman Society from Nero to Marcus Aurelius, pp. 6 and 7, the paragraph beginning, "The Antonine age saw," and continuing to "the terrors of the Claudian

Caesars." Greek Prose, Grote: History of Greece, Chapter LXIV, pages 120-123: "The advent of Cyrus ambition being one, but only one, among the number."

Special Prize in German

A prize of the value of \$10 in books is awarded to the student obtaining the highest standing in German 2.

Special Prize in French

A prize of the value of \$10 in books is awarded to the student obtaining the highest standing in French 2.

McIlquham Foundation in English

Value \$27.50. Established by the parents of Mr. J. Max McIlquham, a student at Queen's University, 1912-15, who was killed on service overseas. Awarded for the best original poem, short story, or play, as the Department of English may decide from year to year. For 1925-26 the prize will be awarded for a short story.

James C. Rogers Prize in English

A prize of the value of \$5 in books. Awarded by James C. Rogers, B.A., '94, to the student obtaining the highest standing in English 2.

Special Prize in Spanish

A prize of the value of \$10 in books is awarded to the student obtaining the highest standing in Spanish 1.

Mary Fraser McLennan Prize in Hebrew

A prize of the value of \$12, founded in memory of Mary Fraser McLennan, of Lancaster, by her sons. Awarded to the student obtaining the highest standing in Hebrew 1, provided he intends to pursue a Theological course in Queen's Theological College.

The M. C. Cameron Prize in Gaelic

Value \$40. Founded by the late M. C. Cameron, M.P., Goderich. Awarded to the best Gaelic scholar, reader, and speaker. Application for examination should be submitted to the Registrar before January 15 in each year. Work prescribed: any 600 lines of Ossian's Fingal, Blackie's Language and Literature of the Scottish Highlands, Gaelic Grammar, translation at sight of Gaelic into English and English into Gaelic. This scholarship will not be awarded to any candidate who does not take at least fifty per cent. of the total number of marks in the examination.

Robert Bruce Bursaries

The will of the late Robert Bruce of Quebec provided for a sum of about \$100 a year to be given in Bursaries "to students of promising ability but straitened circumstances." Until 1948 the award is limited to students of Scottish extraction.

This sum will be disbursed annually to one or more students in the third or later years in any Faculty. The Registrar will receive applications up to December 21 in each year.

V.-MEDALS

A medal is awarded by the University under the conditions stated below to the candidate who makes the highest standing in Honours in each subject, provided such standing is not less than 75 per cent.

- 1. A graduate in Arts or a Tutor engaged in teaching the Honour work of a competitive subject is not eligible for a medal.
- 2. A candidate for a medal must have completed at least six courses in the competitive subject, of which two full courses must be taken in the session at the end of which the medal is awarded.
- 3. The award is made on the basis of the candidate's standing in four Honour courses following course 2.

GENERAL REGULATIONS

All enquiries regarding regulations should be addressed to the Registrar.

Changes in regulations become effective immediately.

SPECIAL STUDENTS

- 1. Special students are those who do not intend to proceed to a degree. Such students may be admitted on satisfying the Faculty as to their ability to profit by the courses to which they seek admission.
- 2a. Special students under twenty-one at the opening of the session are subject to all the regulations affecting regular students and to the following special regulations:—
- (i) They shall not be granted admission for more than one session, though they may be readmitted to a succeeding session on a new application.
- (ii) They shall not be allowed any supplemental examination but must withdraw from the University immediately if they fail to satisfy the Faculty at the regular December or April examinations.
- (iii) Examinations passed by special students shall carry no credit towards Matriculation or towards a degree.
- (iv) Attendance as a special student will not count as part of the attendance required for a degree.
- 2b. Special students over twenty-one years of age at the opening of the session may by action of the Faculty be exempted from all regulations respecting attendance and work.

REGULATIONS REGARDING COURSES

In addition to the regulations below, see those under "Courses of Study leading to the Degree of B.A." Note particularly the provisions for Concentration, Distribution, and Sequence of Work.

Attendance and Work

3. All students are required to write eighty per cent. of the essays and exercises, to do eighty per cent. of the required laboratory work, and

to attend eighty per cent. of the class lectures during their period of intra-mural attendance, as necessary conditions of coming up for examination.

A careful record of absences based on monthly reports from instructors is kept at the Registrar's office.

- 4. A student who has failed to pass the examination in any course must repeat the attendance and examination in that course in his next year at the University if he intends counting that course towards a degree.
- 5. The faculty may at any time either during the term or after the close of the term require any student to withdraw from the University whose conduct, attendance, work, or progress is deemed unsatisfactory.

Number of Courses in a Year

No student is allowed to take more than five courses in the academic year. See, however, section 9 under ADMISSION TO THE FACULTY OF ARTS and section 11 below.

- 7. An intra-mural student, unless excused for some special reason, must take five courses in each of his first and second years. In no case will such a student be allowed to take fewer than three courses in his first or second year. He may, however, with the consent of the Board of Studies, take three or four courses in the winter session and the rest extra-murally in the summer, provided that he attends the Summer School.
- 8. Subject to the provisions of Regulation 7, permission to withdraw from a course may be obtained from the Faculty at any time; but permission to make a change of course may be obtained only before October 31.

Preparatory Courses

9. Students with full matriculation who desire to begin work in Greek, German, or Spanish may count course A in one of these subjects towards a degree. Such students may also count course A in one of these subjects toward the required number of courses for Minor, Major or Honour standing, provided that, in the case of Honours, at least five other courses are taken in the same subject. A student wishing to take Honours in one of the above subjects will be permitted to take course 1 during the summer after taking course A in the winter, but in that case he cannot count course A as a course towards his degree.

Courses A and 1 may not be substituted for courses 1 and 2 where the latter are definitely prescribed.

10. In no case may Latin A, French A, or Mathematics A be counted towards a degree.

- 11a. Intra-mural students who desire to begin work in Latin, Greek, German, French, or Mathematics, and those who enter the University conditioned in any of these subjects must, as a general rule, attend the Preparatory course in such subject for one session, and pass the University or equivalent Pass matriculation examination before being admitted to the regular first year course in that subject. Those, however, whose previous work in a particular subject has almost reached the matriculation standard, may be admitted to course 1 as conditioned students with the understanding that if their work is not satisfactory to the Department concerned they may at any time be required to drop course 1 and to take course A.
- 11b. Students admitted with a condition in any subject must pass course 1 in that subject in order to remove the condition.
- 12. Students who have taken Preparatory courses in two languages throughout the session and succeed in passing all their examinations in April may be permitted, on application to the Board of Studies, to register for summer work in one course.
- 13. Students who have been granted special permission to take the first year in Arts for Matriculation purposes only, and who have passed in a Preparatory course in April, are allowed to register in course 1 during the following summer session, and to write on the September examination.

REGULATIONS REGARDING EXAMINATIONS

December Examinations

14. Mid-session examinations are held in all subjects, including courses for private work, during the last week before the Christmas holidays. Such examinations, except as provided in Regulation 15, are final in half-courses of the first term. In courses that continue throughout the session credit not exceeding fifty per cent. of the final marks may be assigned to the December examinations. Any student not writing on any mid-year examination is regarded as having failed and will be given a mark of zero.

April Examinations

15. Final examinations are held in the last week of April. Intramural students must take these examinations in all the courses and half-courses in which they are registered in the second term. (See Regulation 7.) Permission to postpone Pass examinations until September may be obtained in special cases but only upon the recommendation of the Professors concerned. Honour examinations may not be postponed. Examination Timetables are issued each year in March.

September Examinations

- 16. Supplemental examinations are held in September in all courses regularly open to Pass students. Honour examinations are given in the Honour courses offered during the summer, and students who failed in these courses in December or April may write in September with the consent of the departments concerned and of the Board of Studies. Other supplemental Honour examinations may be given in September with the consent of the Board of Studies, if recommended by the Departments concerned.
- 17. No student is permitted to take a Supplemental examination in any course or half-course in which he had made less than fifteen per cent at the previous examination.

Special Examinations

18. Students who for any reason fail to take an examination on the appointed date may be required to take a special examination. The fee is five dollars for one special examination or ten dollars for two or more special examinations.

Admission to Examinations

(See also Regulations 3, 14, 16, and 17)

- 19. Students will not be permitted to write on examinations unless they have registered at the prescribed date within the academic year in which they present themselves. (See REGISTRATION.) But graduates not in attendance who wish to take examinations merely to raise their standing in subjects passed may delay their registration till March 1.
- 20. At the specified date (see pages 5 and 6) before the September examinations begin, each candidate must apply to the Registrar for permission to write on the subjects in which he desires to be examined. The application should be on printed forms supplied for the purpose and should be accompanied by the proper fees. See FEES.
- 21. No candidate will be admitted to the examination hall later than thirty minutes after the beginning of the examination.
- 22. No candidate will be permitted to take any books or papers into the examination hall except by express direction of the examiner.

Determination of Standing

23. In determining a student's standing at a sessional examination the Departments are entitled to take into account the entire class record.

24. The following percentages are required for the various grades of Pass and Honour standing in all courses:

PASS STANDING

(Applying only to	courses	numbered	under	10)	
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Division	<i>I</i>	70	per	cent.	and over.
Division	II		.55	to 69	per cent.
Division	111		40	to 54	ner cent.

HONOUR STANDING

(Applying to all courses numbered 10 or over)
Class I
Class II
Class III50 to 65 per cent.
Credit on a Pass Course

COURSES OF STUDY LEADING TO THE DEGREE OF B.A.

GENERAL EXPLANATIONS.

Pass and Honour Courses.

The word "Course," when printed with an initial capital, is used to indicate a programme of work leading to a degree or certificate.

A candidate for the degree of Bachelor of Arts may take a Pass Course or an Honour Course. The latter requires greater specialization and higher standards in the work of the two main subjects. Details are given below under REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

Courses and Half-Courses.

The word "course," printed with an initial small letter, indicates a unit of work occupying, as a rule, three hours a week throughout the session. A "half-course," on the other hand, usually occupies only one term, though occasionally it may run through the session.

Two half-courses are equivalent to a course, and when the amount of work to be done is defined in courses, it is to be understood that an equivalent in courses and half-courses may be offered.

Numbering of Courses and Half-Courses.

Preparatory courses in the languages are designated by the letter A (German A). See GENERAL REGULATIONS. Other courses are numbered with Arabic numerals (Latin 1, Greek 2). Half-courses have in addition to the numeral the letter a or b, according as they are offered in the first or second term. A half-course running throughout the session is marked hf. ((Chemistry 133hf.)

Courses numbered 99 are Reading and Seminar Courses for Honour students. See Section 2 under REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

The fundamental courses in each subject are numbered 1 and 2 (History 1, 2 or 3) and must be taken by all proceeding to advanced work. Other courses numbered under 10 are for Pass students only. Courses numbered 10 and upwards are Honour courses though in most departments some of them are open to Pass students.

SYNOPSIS OF COURSES

The following Courses of Study are outlined in the succeeding pages:

Pass and Honour Courses leading to the degree of B.A.

Courses for Teachers' Certificates in the Province of Ontario.

Courses in Commerce and Administration.

Combined Course in Arts and Theology.

Combined Course in Arts and Applied Science.

PASS AND HONOUR COURSES LEADING TO THE DEGREE OF BACHELOR OF ARTS

A candidate is subject to changes in Regulations or Courses made after his first registration unless in the judgment of the Board of Studies undue hardship is involved.

All enquiries regarding Regulations should be addressed to the Registrar.

1. Amount and Quality of Work.

Except with the permission of the Department concerned, a student may not register in a course numbered 10 or over unless he has made at least fifty-five per cent. in the preceding course.

A. Pass Degree. A candidate for the Pass degree of B.A. must extend his work over four years from Matriculation. He must pass in nineteen courses with a minimum of forty per cent. in each and with not less than fifty-five per cent. in ten of them. In courses numbered 10 or over, Third Class Honours will count as the equivalent of second division.

A student who fails in an Honour Course will be given a Pass degree, if he makes the minimum percentages mentioned above and satisfies the requirements for concentration and distribution of work in a Pass Course.

B. Honour Degree. A candidate for the Honour degree of B.A. is advised to spend five years from Matriculation. He must pass in twenty courses with a minimum of forty per cent. in each, and must make a minimum of fifty per cent. in each course with an average of sixty-six per cent. in the Honour work of each special subject.

2. Concentration of Work,

A. Pass Degree. Each candidate for a Pass degree shall take at least *five courses in one subject to be known as his Major and at least four courses in a related subject to be known as his Minor.

B. Honour Degree. Each candidate for Honours must take at least *twelve courses in two related subjects of which all but the first two in each subject shall be Honour courses, that is, chosen from the group numbered upwards from 10 in the departmental announcements. He must take at least five courses in each of his two special subjects and must include course 99 (Seminar and Reading course) in the subject chiefly emphasized.

3. Distribution of Work.

A candidate for a degree must distribute his work so as to include the courses indicated under each of the following groups:

Group I LANGUAGE AND LITERATURE	Group II PHILOSOPHY, HISTORY. POLITICAL AND ECONOMIC SCIENCE	Group III MATHEMATICS AND SCIENCE
English 1 and 2 Latin 1 and 2 One of Greek 1 and 2 German 1 and 2 French 1 and 2	Philosophy 1 or 2 Two of Philosophy 1 Philosophy 2 History 1 History 2 History 3 Economics 1 Economics 2	Mathematics 1 Two of Physics 1 Physics 2 Chemistry 1 Chemistry 2 Biology 1 Biology 2 Geology 1 Mineralogy 1 2Astronomy 1

(Small figures refer to footnotes on p. 67.)

Hebrew, Italian, Spanish and Scandinavian may be counted towards a degree as optional subjects, but of these four only Spanish may be taken as a Minor, Major or Honour subject.

Spanish and Italian may not both be counted towards a degree, but with the consent of the Department of Spanish, students taking a Major or Honours in Spanish may substitute Italian 1 for one of their lecture courses in Spanish.

4. Sequence of Work.

In each of his second, third, and fourth years a student must have his programme of work approved by the Board of Studies.

^{*}When the Major and Minor or Honour subjects belong to Group III (see the next section) and require two or three courses in other subjects as a pre-requisite (as Geology, Mineralogy, and Biology require Chemistry), they shall be reduced by the amount of work that must be taken beyond one course in the pre-requisite studies. In accordance with this regulation the University will award Honours in Science on the special Course for Teachers outlined under regulations for Specialists' certificates, and will give Honours in Chemistry, Geology and Mineralogy if the general requirements are satisfied and the following courses are taken in the Honour group: Chemistry 1, 2, 21, 31, 41, 99, and one other; Geology 1 (55%), 10, 15; Mineralogy 1 (55%), 11.

The courses in each subject must be taken in the order prescribed in the Departmental announcements. Ordinarily course 1 is pre-requisite to course 2 and course 2 is pre-requisite to all other courses, but slight variations from this order are permitted by the Departments of English, History, Economics, Philosophy, and Mathematics.

First Year

A student entering with Pass Matriculation shall take the following five* courses in his first year:

- Latin 1 (But those choosing their Major and Minor or Honour subjects from Group III must take Physics 1 instead of Latin 1. The latter may be taken later as an option.)
- 2. Greek 1, German 1, or French 1
- 3. English 1
- 4. Mathematics 1
- 5. A Science. (Those, however, who choose a third foreign language as one of the two special subjects must begin it at this point and postpone the science course).

Students will note that no course in Group II may be taken by a Pass Matriculant in his first year.

Students requiring for any purpose a certificate of having completed the first year's work must take the following five courses: (1) Latin 1; (2) Greek 1, German 1, French 1, or Spanish 1; (3) English 1; (4) Mathematics 1; (5) Physics 1 or Chemistry 1, or another of the courses named in (2).

Intra-mural students without matriculation in Mathematics or in any of the languages must take the Preparatory course in the deficient subjects. See regulations regarding Preparatory courses.

¹A student whose Pass Major and Minor are both in Group II will not be required to take Latin 2; a student whose Honour subjects are both in Group II may omit either Latin 2 or Mathematics 1; a student whose Major and Minor or Honour subjects are both in Group III may omit Latin or take it as an optional subject, or substitute it for the second year work in Greek, German or French.

²As one of the compulsory Science courses, Astronomy 1 is open only to Pass students.

³Mineralogy may be taken only by students who have had matriculation Chemistry or Chemistry 1 or are taking Chemistry 1 concurrently.

⁴An Honour student not specializing in this Group may omit one of these courses.

^{*}Students in their first or second years who are unable to carry the required five courses may, with the consent of the Board of Studies, take three or four in the winter and the rest extra-murally in the summer, provided that they attend the Summer School.

Second Year

A student in his second year shall take five courses; he shall continue at least two subjects of his first year and include at least one subject from Group II.

Third and Fourth Years

A student intending to graduate in four years must in his third and fourth years take the remaining courses of his Minor, Major, or Honour subjects and such additional prescribed or optional work as may be necessary to satisfy the requirements for a degree—nineteen courses for a Pass student and twenty for an Honour student.

COURSES FOR TEACHERS' CERTIFICATES IN THE PROV-INCE OF ONTARIO

(Agreement of 1920)

I. Ordinary Certificates

The academic standing for admission to the professional Course leading to an ordinary High School Assistant's certificate is the degree of Bachelor or Master of Arts, Bachelor or Master of Science, or Bachelor of Commerce, from a British University, based upon Courses approved by the Minister of Education.

Each applicant must have Honour Matriculation standing in English, History, and Mathematics, or equivalent, if his degree Course did not include these subjects.

II. Specialists' Certificates

Subject to the conditions specified below, the academic standing required of Specialists may be obtained by completing a course in Arts with Honours in one of the following groups:

Greek and Latin French and German or Spanish
English and History Mathematics and Physics
English and French
English and German or Spanish

2Commercial Subjects

- 1. The Course shall extend over at least five years from Pass Matriculation or, as may be determined by the regulations of the University concerned, over four years from Honour Matriculation.
- 2. Candidates shall attend for at least two full academic years. Under the direction of the University they may substitute for one of those years at least two Summer sessions.

3. The standard for each year shall be that prescribed by the University for candidates taking Honour Courses. A candidate who has completed the requirements for an Honour degree from the University but has not complied with the regulations as to time required for Specialist's standing may receive the Honour B.A. and later complete any further work required for the Specialist certificate.

A graduate of the Faculty of Applied Science may obtain the standing required for Science Specialists by taking certain additional courses.

English 1, 2

Greek, French, or German 1

Greek, French, or German 2; or Latin; or Spanish (by special permission)

Philosophy 1 or 2 One other course from Group II

Mathematics 1, 2

Physics 1, 2, and an advanced course Chemistry 1, 2, and an advanced course Biology 1, 2, and an advanced course

Another advanced course in Physics, Biology, or Chemistry

Geology 1 Mineralogy 1

²The Commercial Specialist option in the Courses in Commerce and Administration in Queen's University is accepted as the non-professional qualification for a Commercial Specialist's certificate. For further particulars, consult the Announcement of the Courses in Commerce and Administration, of which copies may be obtained from the Registrar.

A student graduating with Honours in Economics is allowed the following subjects of a Commercial Specialist's Certificate: Money and Banking, Theory of Economics, Economic Geography, History of Commerce and Industry.

¹Students who desire a Specialist's certificate in Science should take the Honour Course in two of Physics, Chemistry, and Biology, or the following special Course for Teachers:

III. Inspectors' Certificates

The academic requirement for a Public School Inspector's certificate shall be the following:

- (1) An Honour degree in Arts in accordance with the present agreement as prescribed for Specialist qualifications, or
- (2) A Pass degree in Arts with a standard of 66% in any five courses beyond course 1, and 55% in any other five courses, as set forth in the Calendar of Queen's University for the academic year, 1924-25.
- (3) (a) A candidate shall extend his course over at least four years from Junior Matriculation and he shall attend the University classes (i) for at least two complete sessions approved by the University, or (ii) for at least one complete session, and two complete sessions of the Summer School, or the equivalent thereof, with the supervision prescribed by the scheme agreed upon between the Department and the University.
- (b) Public and Separate School teachers who have had at least ten years' experience and who have had eminent success, as certified by the local Inspector and approved by the Chief Inspector of Public and Separate Schools, may substitute for the two complete University sessions required under (a) (i) above, at least four complete summer sessions.

COURSES IN COMMERCE AND ADMINISTRATION

These Courses, leading to the degree of Bachelor of Commerce, were established in 1919 to assist in meeting the need which exists in Canada of more systematic training for business and public service.

The Courses in Banking established in 1914 by Queen's University in co-operation with the Canadian Bankers' Association will hereafter be continued as part of the Courses in Commerce and Administration.

For further particulars consult Announcement of the Courses in Commerce and Administration, of which copies may be obtained from the Registrar.

COMBINED COURSE IN ARTS AND MEDICINE

This course is no longer offered. A student who has already begun the work under a previous Calendar will be permitted to complete his Course, but no new students may register on the combined course leading to the B.A. and M.D. degrees.

COMBINED COURSE IN ARTS AND APPLIED SCIENCE

A course leading to the Degree of B.A. and B.Sc. in six years.

Students taking this Course are required to have Arts Matriculation and to register for the first two years in Arts alone and to pay the full Arts fees: to register for the third and fourth years in both Arts and Applied Science, paying the registration fees only in Arts and the Applied Science fees in full, including those of the Engineering Society; and to register for the last two years in Applied Science only, paying full fees. Arts classes are subject to the regulations in the Arts Calendar and Applied Science classes to the regulations in the Applied Science Calendar; but the regulations of the Faculty of Applied Science concerning students who fail to pass their classes will apply to those Courses throughout.

The courses must be taken in the order in which they are laid down in the Calendar.

The degree of B.A. will be conferred on candidates who complete four years' work with a minimum standing of forty per cent. and fiftyfive per cent. in half their classes.

Subjects numbered in Roman numerals are taken in the Faculty of Applied Science.

First Year

- 1. English 1
- 2. French 1 or German 1
- 3. Mathematics 1
- 4. Mathematics IV. (Science).
- 5. Astronomy I. (Science).
- 6. Physics 1
- 7. Chemistry 1

Third Year

- 1. Course from Group I.
- 2. Course in a subject previously taken, but not covered by the later courses in Science.
- 3. Mathematics I., II. and III.
- 4. Surveying I.
- 5. Drawing I.
- 6. Projections I.

Fourth, Fifth, and Sixth Years

The fourth, fifth, and sixth years are the same as the second, third, and fourth years of the B.Sc. Courses. See the Calendar of the Faculty of Applied Science.

Second Year

- 1. English 2
- 2. French 2 or German 2
- 3. Philosophy 1 or 2
- 4. | Two of History 1, 2, 3,
- 5. | Economics 2

COMBINED COURSE IN ARTS AND THEOLOGY LEADING TO THE PASS B.A. DEGREE IN FIVE YEARS

- 1. The first year of this Course is fixed as given in the outline below. In the second year the student will take English 2 and will continue with second year work in Greek, German or French.
- 2. Either Greek 1 or Hebrew 1 and 2 must be included in the Course. If Hebrew is included it is recommended that it be taken in the third and fourth years.
- 3. At least one course in Philosophy must be taken. If only one course in Philosophy is included it should, if possible, be put in the third year.
- 4. A second science class must be taken in either the second or third year.
- 5. The work of the second and third years must be planned so that by the end of the third year a student will have completed at least three courses in each of two subjects.
- 6. When the above requirements are satisfied a student may fill any unoccupied spaces in his programme by taking any classes permitted by the Time-Table.

	r wst Year	Secona Year
1.	English 1	Five courses in Arts.
2.	Greek, German, or French 1	
3.	Latin 1	Third Year
4.	Mathematics 1	Five courses in Arts.
5.	Science	
	Fourth Year	Fifth Year
1.	An Arts course	1. Church History
2.	Church History	2. Systematic Theology
3.	Systematic Theology	3. O. T. Criticism
4.	O. T. Criticism	4. N. T. Criticism
5.	N. T. Criticism	5. History of Religion

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The B.A. degree is awarded at the end of the fifth year. For the work of the sixth year, which is taken in the Theological College, see the Theological calendar.

DETAILS OF COURSES OF INSTRUCTION

LATIN LANGUAGE AND LITERATURE

PROFESSOR—Richard Orlando Jolliffe, Ph.D. LECTURER IN CLASSICS—Marcus D. C. Tait, B.A. INSTRUCTOR—Mary L. Macdonnell, M.A. TUTORS—Hazel M. Argue.

H. R. Jolliffe. H. R. Shurtleff.

GENERAL NOTICE TO STUDENTS IN LATIN

A good Latin dictionary is an absolute necessity. For the Pass classes, Lewis' Latin Dictionary for Schools (Oxford Press) is recommended, or Lewis' Elementary Latin Dictionary (Oxford Press). Honour students must provide themselves with Lewis and Short's Latin Dictionary (Oxford Press). All students should own and use a Classical Dictionary—Smith's Smaller Classical Dictionary (Everyman's Library) is convenient and cheap—and a Classical Atlas (Atlas of Classical Geography in Everyman's Library or Murray's Classical Atlas). A Latin grammar is indispensable. In all Pass classes Bennett's Latin Grammar (Allyn and Bacon) will be used. Honour students will require Allen and Greenough's New Latin Grammar (Ginn and Co.). Gow's Companion to School Classics (Macmillan) is a useful general handbook.

PROSE COMPOSITION. Students taking Latin as their Major or Minor, and Honour students in their first year will use Allen's Second Latin Exercise Book (Oxford Press).

SIGHT TRANSLATION. Ability to translate Latin at sight will be tested on every examination paper in authors. The best preparation for translation at sight consists in the careful and honest reading of the prescribed texts without the aid of a translation.

REGULATIONS

- 1. Latin 1 is a prerequisite of Latin 2, and Latin 2 of all other courses.
- 2. A Minor in Latin consists of four courses: 1, 2, and four half-courses to be chosen after consultation with the department.

A Major in Latin consists of five courses: 1, 2, and six half-courses to be chosen after consultation with the department.

3. For Honours in Latin a student will take courses 1 and 2 and from three to five other courses to be chosen after consultation with the department including 32, and 99 if Latin is his principal Honour subject.

4. Extra-mural instruction will be given in courses marked *, viz.: 1, 2, 11a, 13a, 20b during the winter session, and in courses 1, 2, and 25a in the summer. Exercises in prose composition will be assigned on registration.

COURSES OF INSTRUCTION

LATIN A. PREPARATORY COURSE.

Allen, An Elementary Latin Grammar (Oxford, Clarendon Press).

Allen, A First Latin Exercise Book (Oxford, Clarendon Press).
Texts: Those prescribed for Pass Matriculation. 1926.

Monday, Wednesday, and Friday at 3, and Tuesday at 2.

Miss Macdonnell.

*LATIN 1. TRANSLATION AND INTERPRETATION of Prescribed Texts, Sight Translation, Grammar and Prose Composition.

Note.—The examination will be divided into three sections corresponding to the above. Students must satisfy the examiners in each of the three sections of the paper.

Prescribed Texts:

Petrie, A Latin Reader with an Introduction to Roman History (Oxford Press); Selections from Nepos, Caesar, Cicero, Pliny, Sallust, Livy, Catullus, Virgil, Horace.

Sight Translation of passages similar in style and difficulty to the prescribed texts.

Bennett, Latin Grammar (Allyn and Bacon).

Bradley-Arnold, Latin Prose Composition (Longmans, Green and Co.); Exercises 1-35, omitting 4, 13, 18, 19 and 26.

Monday, Wednesday, and Friday at 10.
Mr. Tait, Miss Macdonnell.

*LATIN 2. TRANSLATION AND INTERPRETATION of Prescribed Texts, Sight Translation, Grammar and Prose Composition.

Note.—The examination will be divided into three sections corresponding to the above. Students must satisfy the examiners in each of the three sections of the paper.

Prescribed Texts:

Cicero, Second Philippic (Cicero, Philippic Orations, I-III, V, VII, edited by J. R. King and A. C. Clark, Oxford, Clarendon Press).

Virgil, Selections from the Ecloques, Georgics and Aneid.

P. Vergili Maronis Opera (Sidgwick, Cambridge University Press, 2 vols.).

Bennett, Latin Grammar (Allyn and Bacon).

LATIN 75

Sight Translation of a prose passage similar in style and difficulty to the prescribed text.

Bradley-Arnold, Latin Prose Composition (Longmans, Green and Co.); Exercises 36-67, omitting 51 and 66.

Tuesday, Thursday and Saturday at 11.
Professor Jolliffe and Mr. Tait.

*LATIN 11a. SALLUST, Catiline, and CICERO, In Catilinam, I-IV.

Sallust (W. W. Capes, Oxford Clarendon Press).

Cicero, In Catilinam (A. S. Wilkins, Macmillan's Classical Series).

A study (a) of the economic and political background of the conspiracy; and (b) of the historical and oratorical style.

Monday, Wednesday, and Friday at 9. Professor Jolliffe.

LATIN 12a. Horace, Satires and Epistles. Horace, Complete Works (Bennett and Rolfe. Allyn and Bacon, Boston). Lectures will be given on (a) Horace's autobiography; (b) the Golden Age of Latin Literature; (c) Horace's Philosophy of Life; and (d) the History of Satire.

Monday, Wednesday, and Friday at 11. Professor Jolliffe.

*LATIN 13a. TACITUS, Annals xiii-xvi (Furneaux and Pitman, Oxford University Press). A study of the reign of Nero. Lectures will be given on imperial absolutism, Seneca, and Roman Stoicism.

Tuesday, Thursday, and Saturday at 10. Mr. Tait.

*LATIN 20b. CICERO, The Letters (edited by Abbott, Ginn and Co.)

This course will deal with the political movements of the period and with Cicero's personal and political friendships. It will also afford material for judging the ethical and political principles of his private and public life.

Tuesday, Thursday, and Saturday at 10. Professor Jolliffe.

- LATIN 23b. VIRGIL, Georgics I and IV. Selections from the Ecloques of Virgil and the Idylls of Theocritus. Lectures will be given on the Greek models of Virgil's didactic and pastoral poetry and on the influence of these types of ancient literature on later poetry.
 - P. Virgili Maronis Opera (Sidgwick, Cambridge University Press, 2 vols.).

Monday, Wednesday, and Friday at 9. Mr. Tait.

*LATIN 25a. Horace, The Odes and Epodes (Shorey and Laing, B. H. Sanborn Co.).

Attention will be directed in this course almost entirely to the literary study of the poems and to the illustration of their influence on English poetry.

Summer Session, 1925.

LATIN 27b. ROMAN ELEGIAC POETS. Selections from the poetry of Catullus, Tibullus, Propertius and Ovid.

The Roman Elegiac Poets (Harrington, American Book Company).

Monday, Wednesday, and Friday at 11. Mr. Tait.

LATIN 32. LATIN PROSE AND ROMAN HISTORY.

Lectures on Latin prose style, supplemented by a weekly theme. Lectures, colloquia, and essays on the period from 133 B.C. to 37 A.D. Roman imperialism, the provincial system, the decline of the Republic, the transition to the Principate.

Professor Jolliffe.

LATIN 99. SEMINAR. A series of lectures, essays and colloquia dealing with (a) Latin literature; (b) Roman religion; (c) Roman private life.

Professor Jolliffe.

LATIN 100. THE LATIN NOVEL. Apuleius, The Metamorphoses.

This course will include lectures on (i) The sources and development of the Latin novel; (ii) The Roman belief in magic; (iii)

Open only to candidates for the degree of M.A.

LATIN 101. PROBLEMS IN LATIN SYNTAX.

The religion of Isis.

A historical and comparative study of the development of Latin Syntax.

Prerequisite: A reading knowledge of Greek, especially of Homer.

Open only to candidates for the degree of M.A.

LATIN 102. THE FOUNDATION AND CONSTITUTION OF THE PRINCIPATE.

A study of the period from the original sources.

Open only to candidates for the degree of M.A.

GREEK LANGUAGE AND LITERATURE

PROFESSOR—T. Callander, M.A.

LECTURER IN CLASSICS—M. A. C. Tait, B.A.

INSTRUCTOR—Mary L. Macdonnell, M.A.

GENERAL NOTICE TO STUDENTS IN GREEK

The Greek Dictionary recommended is by Liddell and Scott. A Greek Grammar, preferably Goodwin's or Smyth's, is also necessary. Murray's Classical Atlas, Jebb's Primer of Greek Literature, Maisch's Greek Antiquities, and Bury's History of Greece are indispensable.

PROSE COMPOSITION. Students taking Greek as their Major or Minor, and Honour students in their first year work, will use Sidgwick's *Greek Prose Composition*.

REGULATIONS

Greek A may be counted towards a degree and towards a Minor or a Major or Honours under conditions specified in section 9 of GENERAL REGULATIONS. Students who enter the University without matriculation in Greek, and yet desire to specialize in this subject, may complete their programme of work in the usual time. If Greek A is taken in the winter session, Greek 1 may be taken in the summer provided that Greek A is not counted as a course.

For Pass students a Minor in Greek consists of four courses, including 1 and 2; and a Major in Greek consists of five courses.

For Honours in Greek a student must take from five to seven courses, including 1, 2, 11a, 12b, 13b. If the reading course is in Greek, 99 a and b must be taken.

Extra-mural instruction both in winter and in summer will be given in the courses marked with an asterisk, viz.: 1, 2, 10a, 12b, 13b.

COURSES OF INSTRUCTION

GREEK A. FOR BEGINNERS.

This class will devote its attention chiefly to Homer. The text-book is Pharr's *Homeric Greek* (Heath), a new work designed to supply a complete introduction to the Greek language, including inflections, grammar and composition. It is substituted for the manuals based on Xenophon, and will lead up to the course Greek 1. The literary and historical setting is not neglected, although the first care is linguistic.

Tuesday, Thursday, and Saturday at 9 and Wednesday at 1.

Miss Macdonnell.

*GREEK 1.

1. TEXTS FOR SPECIAL STUDY:

Freeman and Lowe, *Greek Reader* (Oxford Press).

The Iliad, I-XII, Leaf and Bayfield (Macmillan). Selections.

The Acts of the Apostles, chapters i-v.

- 2. UNSEEN TRANSLATION.
- 3. COMPOSITION.

Pitman, Greek Prose Composition.

4. GRAMMAR.

Goodwin, Greek Grammar.

Tuesday, Thursday, and Saturday at 10. Miss Macdonnell.

*GREEK 2.

1. TEXTS FOR SPECIAL STUDY:

Euripides, Alcestis.

Plato, Apology, Crito and Phaedo, Selections, Ed. Doherty. The Epistle to the Galatians.

- 2. UNSEEN TRANSLATION.
- 3. Composition.

North and Hillard, Greek Prose Composition.

4. GRAMMAR.

Goodwin, Greek Grammar.

5. GENERAL READING:

Jebb, Primer of Greek Literature and Introduction to Homer. Maisch, Greek Antiquities.

Bury, History of Greece. Every member of the class in Greek 2 should make himself familiar with the outlines of Greek History at the beginning of his course. Lectures on this subject will be given during the session.

Monday, Wednesday, and Friday at 10. Professor Callander.

GREEK 11a. GREEK EPIC. Intensive reading of certain books of Homer. with rapid survey of the *Iliad* and the *Odyssey* in translation.

Tuesday, Thursday, and Saturday at 9. Professor Jolliffe.

*GREEK 12b. THE GREEK HISTORIANS. Select texts of Herodotus and Thucydides.

Tuesday, Thursday, and Saturday at 9. Professor Callander.

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- *GREEK 13b. GREEK TRAGEDY. A play of Aeschylus, of Sophocles, and of Euripides, with topics of a wider range belonging to this field.

 Tuesday, Thursday, and Saturday at 11. Professor Callander.
- GREEK 14a. GREEK COMEDY. Two plays of Aristophanes, together with select portions of Menander.

Tuesday, Thursday, and Saturday at 9. Mr. Tait.

- GREEK 15a. GREEK PHILOSOPHY. Plato's Republic and part of Aristotle's Ethics.
- GREEK 16b. THE ORATORS. Select works of Lysias and Demosthenes.
- GREEK 17b. THE BUCOLIC POETS.
- GREEK 99 a and b. READING AND SEMINAR COURSE FOR HONOUR STU-DENTS where required.
- GREEK 100. GREEK LYRIC POETRY.
- GREEK 101. THE HELLENISTIC PERIOD AND THE NEW TESTAMENT.
- GREEK 102. BYZANTINE HISTORY AND CULTURE.

SEMITIC LANGUAGES AND LITERATURE

PROFESSOR—Rev. W. G. Jordan, B.A., D.D. TUTORS—A. D. Sutherland, B.A. W. Harold Reid, B.A.

GENERAL NOTICE TO STUDENTS IN HEBREW

Students in Hebrew, especially those who purpose to do work in Honours, are recommended to provide themselves with a good lexicon, a critical edition of the Hebrew Old Testament, and, if possible, Cowley's translation of Kautzsch's Gesenius' Hebrew Grammar (Oxford, 1910). The Oxford Hebrew Lexicon by Brown, Driver, and Briggs is expensive but almost indispensable for advanced students. Kittel's Biblia Hebraica is the best moderate-priced critical Hebrew Bible. These books are in the University Consulting Library and, in any case, students are expected to use them regularly as books of reference.

Until further provision is made for the teaching of the cognate languages the advanced courses in Semitics are withdrawn. The attention of students is called to the half-courses in Semitic History and Literature offered by Professor Jordan as History 10a and English 11b.

COURSES OF INSTRUCTION

SEMITICS 1: ELEMENTARY HEBREW.

- 1. GRAMMAR AND COMPOSITION: the class lectures; exercises in the first twenty chapters of Davidson's *Hebrew Grammar* (Nineteenth Edition: Revised by J. E. McFadyen; pub. by T. and T. Clark); the Regular Verbs, pp. 208-9.
- 2. TRANSLATION: Genesis, Chapter I; Psalms, I and CIII; I Samuel, Chapters III-V.
 - 3. SIGHT TRANSLATION.

Tuesday, Thursday and Saturday at 8.

SEMITICS 2: HEBREW.

- 1. GRAMMAR AND COMPOSITION: the class lectures (one hour a week); exercises in Chapters XX to XXXVIII, inclusive, of Davidson's *Hebrew Grammar* (Nineteenth Edition: Revised by J. E. McFadyen; pub. by T. and T. Clark); the Irregular Verbs, pp. 212-221.
 - 2. SYNTAX: the class lectures.
 - 3. TRANSLATION.

Isaiah, Chapter XL.

Jonah.

I Kings, XVII-XVIII.

Monday, Wednesday at 8; Friday at 3.

GERMANIC LANGUAGES AND LITERATURES

PROFESSOR—John Macgillivray, B.A., Ph.D. ASSISTANT PROFESSOR—

REGULATIONS

- 1. German A may be counted towards a degree and towards a Minor or a Major or Honours under conditions specified in section 9 of GENERAL REGULATIONS. Students who enter the University without matriculation in German, and yet desire to specialize in this subject may complete their programme of work in the usual time. If German A is taken in the winter session, German 1 may be taken in the summer, but in this case German A must not be counted as a course.
- 2. The Minor in German consists of four courses or equivalent, including 1, 2, 11a, and 12b.
- 3. The Major in German consists of five courses or equivalent, including 1, 2, 11a, 12b.
- 4. Students making German one of their Honour subjects must take from five to seven courses or equivalent, including 1, 2, 11a, 12b. Those who make German their main subject must also take 99.
- 5. Students taking a Minor, a Major, or Honours in German should read as many of the prescribed works as possible during the long summer vacation.
- 6. While the direct method will be more or less used from the beginning, the advanced classes will be conducted mainly in German.
- 7. Extra-mural instruction is offered in all courses except A, B, 3a, 33a and 99.

GERMAN A. PREPARATORY GERMAN.

This course is intended to meet the needs of students who, owing to the inadequate conditions in most of the secondary schools, enter the University with little or no knowledge of German. It is taken by students who need it to complete their Matriculation, or who desire to pursue a course in which German text-books or works of reference are prescribed or recommended. The requirements correspond generally to those for Pass Matriculation.

The work comprises drill on pronunciation, a study of the elements of grammar, the reading of easy literature, dictation, oral and written composition.

Text-books:-

Schrag and Alexis, First Course in German.

Baumbach, Märchen und Gedichte, short selections (Ginn).

Schiller, Das Lied von der Glocke (Heath).

Colmann, Easy German Poetry, selected poems (Ginn).

Tuesday, Thursday and Saturday at 8; Wednesday at 4.

Or some other time to be agreed upon.

GERMAN B. ELEMENTARY SCANDINAVIAN.

The aim of this course is to give the student a reading knowledge of Swedish and Dano-Norwegian, and thus open to him the rich store of modern Scandinavian literature.

A knowledge of German is not required, but is helpful. Students specializing in German, and desiring advanced credit for this work, should register for courses 25a and 26b instead.

Text-books:-

Elmquist, Swedish Grammar (Augustana Book Concern).

Lagerlöf, Valda Berättelser (Augustana Book Concern).

One of the following:

Ibsen, Et dukkehjem (Gyldendalske Boghandel).

Björnson, Synnöve Solbakken (Free Church Book Concern).

Tuesday, Thursday and Saturday at 10.

*GERMAN 1. INTERMEDIATE GERMAN.

The work embraces the reading of modern authors, a more advanced study of grammar and syntax (in connection with the texts read and the written and oral exercises), memorizing of poems, writing from dictation, translation at sight, composition and oral practice.

Text-books:-

Schiller, Das Lied von der Glocke (Heath).

Storm, Der Schimmelreiter, pp. 1-70 (Ginn).

Smitthenner, Ad'm, Friede auf Erden (Wiesbaden).

Baumbach, Märchen und Gedichte, selections (Ginn).

Collmann, Easy German Poetry, selections (Ginn).

Tuesday, Thursday, and Saturday at 9; Wednesday at 4.

*GERMAN 2. ADVANCED GERMAN.

The work consists of a more critical reading of modern literature, both prose and verse, oral and written composition based on this literature, with a more advanced study of grammar and syntax.

Text-books:-

Goethe, Das Märchen (Heath).

Storm, Der Schimmelreiter (Ginn).

Chamisso, Peter Schlemill (Heath).

Heyse, Der verlorene Sohn, (Wiesbaden).

Smitthenner, Ad'm, Friede auf Erden (Wiesbaden).

Collman, Easy German Poetry (Ginn).

Klee, Deutsche Mythologie, selections (Velhagen).

Schiller, Das Lied von der Glocke (Heath).

Monday, Wednesday and Friday at 10.

*GERMAN 3a.

This course is designed for students who are doing advanced work in Chemistry, Physics, Geology, Mineralogy, Biology, and Anatomy. The reading will be selected to suit the members of the class.

Prerequisite: German A, or Matriculation in German.

Text-books:-

Helmholtz, Populäre Vorträge (Heath), or

Du Bois-Reymond, Wissenschaftliche Vorträge (Ginn).

Monday, Wednesday, Friday at 9, or at a time to be selected.

*GERMAN 11a.

An outline of Lessing's life and time precedes a critical reading of his most important dramatic, dramaturgic, and philosophical works.

Text-books:-

Löschhorn, Lessings Leben und Werke (Velhagen).

Franz, Hilfsbuch zu Lessing (Velhagen).

Lessing, Minna von Barnhelm (Holt), Emilia Galotti (Heath), Nathan der Weise (Ginn), Hamburgische Dramaturgie, selections (Holt), Briefe und Abhandlungen, selections (Velhagen).

Monday, Wednesday, and Friday at 11.

*GERMAN 12b. GOETHE'S LIFE AND WORKS.

An outline of the poet's life and time precedes a critical study of his most important dramatic and lyrical productions.

Text-books:-

Heinemann, Goethes Leben und Werke (Velhagen).

Weitbrecht, Deutsche Literaturgeschichte der Klassikerzeit (Göschen).

Goethe, Faust, I (Hesse), Iphigenie auf Tauris (Holt), Torquato Tasso (Ginn), Egmont (Holt), Poems, selections (Holt), Das Märchen (Heath), Novelle, Shakespeare (Ehlermann).

Monday, Wednesday and Friday at 8.

*GERMAN 21b.

The reading and interpretation of selected dramas, poems, letters, historical and philosophical writings will be accompanied by a rapid survey of the whole classical period, with special emphasis on the Storm-and-Stress movement.

Text-books:-

Lyon, Schillers Leben und Werke (Velhagen).

Weitbrecht, Deutsche Literaturgeschichte der Klassikerzeit (Göschen).

Schiller, Kabale und Liebe (Holt), Die Jungfrau von Orleans (Ginn), Wallenstein (Holt), Wilhelm Tell (Holt), Poems, selections (Holt).

Omitted in 1925-26.

*GERMAN 22a. GERMAN DRAMA.

The course gives in outline the history and technique of the German drama of the nineteenth century. A number of representative works are studied critically in class.

Text-books:-

Witowski, Das deutsche Drama des 19. Jahrhunderts (Teubner). Goethe, Faust (Hesse).

Grillparzer, Des Meeres und der Liebe Wellen (Oxford Press).

Ludwig, Der Erbförster (Holt).

Hebbel, Herodes und Marianne (Holt).

Freytag, Die Journalisten (Heath).

Hauptmann, Die versunkene Glocke (Holt).

Sudermann, Heimat (Heath).

Schnitzler, Der einsame Weg (Fischer).

At an hour to be selected.

*GERMAN 23b.

The course gives in outline the history and development of the *Novelle*. A number of representative short stories are studied critically, especially from the point of view of technique.

Text-books:-

Kleist, Michael Kohlhaas (Holt).

Keller, Romeo und Julia auf dem Dorfe (Holt), Kleider machen Leute (Heath).

Meyer, Gustav Adolfs Page (Heath).

Riehl, Die vierzehn Nothelfer (Ginn).

Storm, In St. Jürgen (Heath).

Heyse, Vetter Gabriel (Holt), Der verlorene Sohn (Wiesbaden).

Baumbach, Die Nonna (Heath).

Hoffman, Meister Martin der Küfner (Holt).

Wildenbruch, Die Rabensteinerin (Heath).

At an hour to be selected.

*GERMAN 24b. THE GERMAN LYRIC.

The course gives in outline the history of the German lyric in the nineteenth century. A number of representative poets are studied critically in class, and some of their outstanding poems are committed to memory.

Text-books:-

Spiero, Geschichte der deutschen Lyrik seit Claudius (Teubner).

Borinski, Deutsche Poetik (Göschen).

Fiedler, A Book of German Verse (Oxford Press).

Benzmann, Moderne deutsche Lyrik (Reclam).

Bethge, Deutsche Lyrik seit Liliencron (Hesse and Becker).

Tuesday, Thursday and Saturday at 9.

*GERMAN 25a. SWEDISH.

The course covers the same ground as the first term of course B, which is outlined above, and includes in addition selections from the second volume of *Svensk Diktning*, edited by Mauritzon and Olson (Augustana Book Concern).

Prerequisite: German A and 1, or their equivalent.

Tuesday, Thursday and Saturday at 10.

*GERMAN 26b. DANO-NORWEGIAN.

The course covers the same ground as the second term of course B, and includes in addition Lie's Selected Stories and Poems (The Free Church Book Concern).

Prerequisite: Course 25a.

N.B.—Scandinavian may be counted towards a degree as an optional subject.

Tuesday, Thursday and Saturday at 10.

*GERMAN 31a. SURVEY OF GERMAN LITERATURE AND HISTORY.

(i) An outline of the history of German literature, including its setting in the political and cultural history of the country. Special stress will be laid on the periods from 1750 to the present time. Assigned readings and reports.

Text-books:-

Heinemann, Deutsche Dichtung (Kroner).

Thomas, An Anthology of German Literature (Heath).

Fiedler, A Book of German Verse.

(ii) An outline of the political, social and cultural history of Germany. Assigned readings and reports.

Kaemmel, Werdegang des deutschen Volkes (Reimer).

Reference books:-

Müller, Geschichte des deutschen Volkes.

Gunther, Deutsche Kulturgeschichte (Göschen).

Omitted in 1925-26.

GERMAN 33a. HISTORY OF THE GERMAN LANGUAGE.

This course outlines the origin and evolution of language in general, and of the Aryan languages in particular. The Germanic family of languages will be stressed, especially Gothic and Old High German. Gothic, as the oldest known member of the family,

will be studied philologically in its relation to Low and High German, and these in their relation to each other. For this purpose specimen passages of Gothic, Old Low German, Old High German, Middle High German, and Modern Low German, or Netherlandish, and Scandinavian will be translated into Modern High German and also considered in a literary way.

Text-books:-

Lyon, Handbuch der deutschen Sprache, II (Teubner).

Braune, Gotische Grammatik mit ausgewählten Lesestücken; Althochdeutsches Lesebuch.

Golther, Der Nibelunge Nôt (Göschen).

Marold, Hartmann von Aue, Wolfram von Eschenbach und Gottfried von Strassburg (Göschen).

Schnitzler, Dutch Grammar.

Selections from courses 25a and 26b.

Time to be arranged.

GERMAN 99. SEMINAR COURSE FOR HONOUR STUDENTS making German one of their main subjects. Students will choose one of the following:

(a) The Literature of Romanticism.

The following works are read:

Jean Paul, Leben des Quintus Fixlein (Cotta).

Tieck, Ausgewählte Werke (Hesse).

Hoffmann, Doge und Dogaresse (Wiesbaden).

Novalis, Ausgewählte Werke (Hesse).

Chamisso, Peter Schlemihl (Heath).

Kleist, Der zerbrochene Krug (Reclam).

Eichendorff, Aus dem Leben eines Taugenichts (Holt).

Fouqué, Undine (Holt).

Grillparzer, Die Ahnfrau (Holt), Der Arme Spielmann (Cambridge Plain Texts).

Fiedler, A Book of German Verse (Oxford Press).

Walzel, Deutsche Romantik (Teubner).

(b) The Literature of Realism.

The following works are read:

Hebbel, Agnes Bernauer (Heath).

Freytag, Soll und Haben (Ginn), De r Staat Friedrichs des Grossen (Cambridge).

Fontane, Grete Minde (Holt).

Hauptmann, Vor Sonnenaufgang (Fischer).

Sudermann, Der Katzensteg (Heath).

Schnitzler, Anatol (Fischer).

Frenssen, Jörn Uhl (Grote).

Bethge, Deutsche Lyrik seit Liliencron (Hesse und Becker).

Time to be arranged.

ROMANCE LANGUAGES AND LITERATURE

PROFESSOR—P. G. C. Campbell, M.A., D.-ès-L. ASSOCIATE PROFESSOR—R. K. Hicks, M.A. ASSISTANT PROFESSOR—W. M. Conacher, B.A. FELLOW—Mme McConnell, B.S., C.A.P.

FRENCH

REGULATIONS

- 1. French 1 is a prerequisite of French 2 and French 2 of all other courses.
- 2. Pass students making French their Minor subject will take courses 1, 2, 3, and 10. Only one of these courses may be taken in any one year. If making French their Major subject they will add 15, which may only be taken in the fourth year.
- 3. Honour students taking French as one of their two Honour subjects, after 1 and 2, will take in the order indicated, 10, 15, 16a, 17b, 19a and 13b; or equivalent courses as offered together with special Oral Work. If the emphasis is laid on French, course 99 will be added.

In the ordinary sequence, 10 and 15 are third year courses, and 16a, 17b, 19a and 13b, are fourth year courses.

- 4. Extra-mural instruction is given during the winter in courses 1, 2, 3, 10, 15b, and 16a, and during the summer in 1 and 2. Registration is allowed only in these courses, which will be found marked with an asterisk. Course 13b is open in the summer of 1925 to students who attend Summer School.
 - 5. All oral examinations must be taken at the University.
- 6. Honour groups for conversation and phonetic study will meet at hours to be arranged at the beginning of term.

COURSES OF INSTRUCTION

FRENCH A. PREPARATORY FRENCH.

This course, intended for those who have not matriculated in French, takes the student up to the standard of the Ontario Pass Matriculation.

Fraser and Squair, High School French Grammar.

Lavisse, Histoire de France, Cours Moyen, Books I-IV (Heath).

Monday, Wednesday, and Friday at 2. Mme McConnell.

*French 1. First Year French.

Grammar and composition, study and translation of texts, dictation, oral practice.

Lavisse, Histoire de France, Cours Moyen, Books I-IV (Heath).

Labiche, Le Voyage de M. Perrichon (Heath).

Daudet, Le Petit Chose (Holt).

Zola, L'Attaque du Moulin (Longmans).

Duhamel and Minssen, Primer of French Prose Composition (Rivingtons).

Siepmann, Short French Grammar (Macmillan).

The oral examination will be held during the term.

Monday, Wednesday, and Friday at 9.

Tuesday, Thursday, and Saturday at 8 (Med), and 9.

Professors Hicks and Conacher.

*FRENCH 2. SECOND YEAR FRENCH.

Molière, Les Précieuses ridicules (Longmans).

Lesage, Gil Blas (American Book Co.).

A French Poetry Book (Methuen).

Daudet, Tartarin de Tarascon (Heath).

Lavisse, Histoire de France, Cours Moyen, Bks. V-VIII (Heath).

Duhamel and Minssen, French Prose Composition for Middle Forms (Rivingtons).

Siepmann, Short French Grammar (Macmillan),

or (for students intending to take higher courses)

The Wellington College French Grammar (D. Nutt).

The oral examination will be held during the term.

Tuesday, Thursday, Saturday, at 10.

Monday, Wednesday, and Friday at 10.

Professors Campbell, Hicks and Conacher.

*French 3. Third Year French (Pass).

Prose and Oral Work on Texts.

Molière. Les Femmes Savantes (Heath).

Balzac, Le Curé de Tours (Heath).

V. Hugo, Poems (Edgar and Squair-Heath).

Daudet, Jack, Part I (Macmillan).

Goodridge, French Composition (Oxford Univ. Press).

A knowledge of the life and works of Rabelais, Montaigne, Corneille, Molière, Racine, Voltaire, Rousseau, V. Hugo, Balzac.

Monday, Wednesday, and Friday at 10.
Professor Conacher.

*French 10. Third Year Honours. Texts and Prose.

Molière, Les Femmes Savantes (Heath).

Marivaux, Le Jeu de l'Amour et du Hasard (Macmillan).

Rousseau, Selections (Oxford University Press).

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Hugo, de Musset, Lamartine, La Triade française (Heath). Balzac, Eugénie Grandet (Holt).

Goodridge, French Composition (Oxford Press).

Le Petit Larousse illustré (Larousse).

A knowledge of the life and works of Rabelais, Montaigne, Corneille, Molière, Racine, Voltaire, Rousseau, V. Hugo, Balzac.

Monday, Wednesday, and Friday at 10.

Professor Hicks.

FRENCH 13b. TRANSLATION FROM FRENCH, PROSE AND COMPOSITION.

This course is conducted in French.

Ritchie and Moore, Manual of French Composition (Cambridge University Press).

Open only to Honour students. Prerequisites, 10 and 15.

Tuesday, Thursday, and Saturday at 10.

Professor Campbell.

FRENCH 15. INTRODUCTION TO LITERATURE.

(i) First Term. THE LITERATURE OF THE SEVENTEENTH CENTURY. Des Granges, Histoire de la Littérature française (Hatier). Vreeland and Michaud, Anthology (Ginn).

*(ii) Second Term. FRENCH CLASSICAL TRAGEDY.

The discussion of the plays will involve the principles of literary criticism, and especially of dramatic criticism.

Corneille, Polyeucte (Ginn).

Racine, Bérénice (Oxford University Press).

Note.—For Intra-mural students this is a whole course. Extramural students may offer the second part only as a half course, 15b, if they have taken or are taking course 10.

Tuesday, Thursday, and Saturday at 9.

Professor Campbell.

*French 16a. Romanticism.

Des Granges, Histoire de la Littérature française (Hatier).

Vreeland and Michaud, Anthology (Ginn).

Chateaubriand, Atala (Heath).

Michelet, Jeanne d'Arc (Blackie).

V. Hugo, Poems (ed. Edgar and Squair-Ginn).

De Musset, Trois Comédies (Heath).

Monday, Wednesday and Friday at 11.

Professor Conacher.

French 17b. Realism.

Des Granges, Histoire de la Littérature française (Hatier).

Vreeland and Michaud, Anthology (Ginn).

Balzac, César Birotteau.

Augier, Maître Guérin (Holt).

Individual Reading on special topics.

Monday, Wednesday and Friday at 11.

Professor Hicks.

FRENCH 19a. THE CRITICISM OF FRENCH LIFE AND LITERATURE.

The following topics will be treated in 1925-6: Metaphor and Simile. French Government and Politics.

Tuesday, Thursday, and Saturday at 10.

Professor Campbell.

FRENCH 99 a and b. Honour Reading and Seminar Course for those taking their reading course in French. Students may select one of the following options or arrange with the Department some equivalent course: The Social Life of the 17th Century; The Novel in the 18th Century; French-Canadian Literature; Les Chansons de Geste; Mediaeval Life; The Theatre in the 19th Century.

FRENCH 100. THE NOVEL.

Open only to candidates for M.A.

FRENCH 110. OLD FRENCH.

The development of Vulgar Latin into Old French, with emphasis on the stressed vowel and some notice of consonantal change and of the verb-forms. Linguistic study of the *Chanson de Roland*. Other texts will be read from the literary point of view. This course is intended for students proceeding to the degree of M.A.

G. Paris, La Chanson de Roland (Ginn).

Baker, Outlines of French Historical Grammar (Dent).

SPANISH AND ITALIAN LANGUAGES AND LITERATURE

PROFESSOR—J. H. Brovedani, D-ès-L. FELLOW—Mrs. W. E. McNeill, M.A. TUTOR—C. Vyner Brooke.

SPANISH

REGULATIONS

- Spanish A may be counted towards a degree and towards a Minor or a Major or Honours under conditions specified in section 9 of GENERAL REGULATIONS.
- 2. Spanish A is a prerequisite to Spanish 1 and Spanish 1 is a prerequisite to all other courses.
- 3. The Minor consists of courses A, 1 (1, 2 for students entering with Spanish Matriculation), and two more courses.
- 4. The Major consists of courses A, 1 (1, 2 for students entering with Matriculation in Spanish), and three more courses. Italian 1, with the consent of the Department, may be substituted for one of the courses.
- 5. Honours consist of A, 1, and four or five courses from those numbered 10 to 99, except for those students entering with Matriculation in Spanish for whom 1, 2 and three to five courses from those numbered 10 to 99 are required. Italian 1, with the consent of the Department, may be substituted for one of the courses.

Students making Spanish their main Honour subject must include Spanish 99.

- 6. Students in commercial courses will take A, 1, 2, or A, 1 and 6.
- 7. Extra-mural instruction is limited to courses A, 1, 2, 6, 16a, and 17b, which are marked with asterisks. Of these, only Spanish A and 1 are given in the summer.
 - 8. Reference Books:

DICTIONARIES: Velázquez, English-Spanish (Appleton), or Cuyás, English-Spanish (Appleton), which is less expensive. Honour students are strongly recommended to use also Pequeño Larousse (Heath), written entirely in Spanish, and Alemany, Diccionario de la lengua española.

GRAMMARS: For First and Second year Students: Ramsay, Book of Modern Spanish. For advanced students: Bello-Cuervo,

Gramática Castellana (R. Roger & F. Chernovis, Paris), one of the best Grammars written entirely in Spanish, and Pidal, Gramática Histórica.

PRONUNCIATION: Moreno-Lacalle, Elements of Spanish Pronunciation (Sanburn). Navarro-Tomás, Pronunciación Española (Centro Estudios Históricos, Madrid) the best work of its kind, indispensable for students taking the Specialist Course.

HISTORY OF LITERATURE: Fitzmaurice-Kelly, History of Spanish Literature. There is also a Spanish edition of this work with an up-to-date bibliography. Mérimée, Histoire de la littérature espagnole (Garnier Frères, Paris), Salcedo, Literatura Española (Casa Editorial Calleja, Madrid). Hurtado La Serna y Gonzales, Historia de la literatura Española (Madrid, 1921, also New York, Zabala and Maurin). C. Barja, Libros y Autores clásicos (The Vermont Printing Co.).

SPAIN AND ITS PEOPLE: Richard Ford, The Handbook for Travellers in Spain, London (John Murray, 8th edition, 1892. There is also an Everyman's edition of the same work entitled Ford's Gatherings from Spain.) George Borrow, The Bible in Spain (Dent), T. Gautier, Voyage en Espagne, E. de Amicis, Spain and the Spaniards (Putnam), are classics with which every student of Spanish must be acquainted. Havelock Ellis, The Soul of Spain (Houghton Mifflin Co.), S. L. Bensusan, Home Life in Spain (Macmillan), J. B. Trend, A Picture of Modern Spain (Houghton Mifflin Co., 1921), are good modern works on this subject.

COURSES OF INSTRUCTION

*SPANISH A. ELEMENTARY SPANISH.

Grammar, Composition, Translation, Reading and oral exercises. Prescribed texts:

Moreno-Lacalle, Elementos de Español (Sanborn), for intramural students only. The grammar for extra-mural students will be prescribed in the outlines.

Hills and Cano, Cuentos y leyendas (Heath), first term. Allen and Castillo, Spanish Life (Holt), second term.

Division A, Tuesday, Thursday, and Saturday at 9.
Division B, Monday, Wednesday, and Friday at 11.

*SPANISH 1. INTERMEDIATE SPANISH.

Prerequisite—Spanish Matriculation, or Spanish A. Grammar, Composition, Translation, Conversation and Study of the following prescribed texts:

Hills, Spanish Tales (Holt).

Luquiens, Spanish-American Reader (Macmillan), first term.

Quintero, Mañana de Sol (Heath), second term.

Cool, Spanish Composition (Ginn).

Ford, Spanish Composition (Heath).

Monday, Wednesday, and Friday at 9.

*SPANISH 2. ADVANCED SPANISH.

Prescribed texts:

Hill and Buceta, Antología de Cuentos Españoles (Heath), first term.

Romera Navarro, *Historia de España* (Heath), first term. Martínez de la Rosa, *La Conjuración de Venecia* (Sanborn). Benavente, *Sin Querer* (Heath).

De pequeñas causas (Heath).

Quintero, Doña Clarines (Heath).

Cool, Spanish Composition, Lessons 14-28.

Remy, Spanish Composition (Heath).

Pequeño Larousse (Heath).

The time-table will be arranged by consultation at the beginning of the session.

*SPANISH 6. COMMERCIAL SPANISH. Prerequisite, Spanish 1.

Prescribed 'texts:

McHale, Commercial Spanish (Heath).

Whitten and Andrade, Spanish Commercial Correspondence (Heath).

*SPANISH 16a.

Don Quixote, Ormsby's translation, Vols. III-VI of the Complete Works of Cervantes, edited by Fitzmaurice-Kelly (Gowans and Gray), or Everyman's English Edition.

Don Quixote must be read before the beginning of the term

by all students intending to register for this course, otherwise the class lectures will not be understood.

Cervantes' Don Quijote, Selections edited by Ford (Heath), for

class use only.

Don Quijote, Clásicos Castellanos (La Lectura), Madrid, must be owned and read by Extra-mural students.

Historia de la literatura española, Hurtado La Serna y Gonzales (Zabala and Maurin, New York)for Extra-mural students only.

Pequeño Larousse (Heath).

*SPANISH 17b. LOPE AND CALDERON; ADVANCED COMPOSITION.

Prescribed texts:-

Lope de Vega, Amar Sin Saber a quién (Holt). Calderón, El Alcalde de Zalamea (Heath).

La Vida es Sueño (A. B. C.).

Hurtado La Serna y Gonzales, *Historia de la literatura Española*, Madrid; also New York, Zabana and Maurin. (For Extra-mural students only).

Pequeño Larousse (Heath).

SPANISH 20. THE NOVEL FROM 1868 AND CONTEMPORARY DRAMA.

SPANISH 22a. CERVANTES.

SPANISH 23b. THE DRAMA IN THE GOLDEN AGE.

SPANISH 24a. THE ROMANTIC PERIOD.

SPANISH 25b. Lyric Poetry from the Middle of the 19th Century.

SPANISH 28b. SPANISH-AMERICAN LITERATURE.

SPANISH 29a. SPANISH RENAISSANCE.

SPANISH 99. READING COURSE FOR HONOUR STUDENTS.

ITALIAN

[Italian 1 offered in 1925-26]

REGULATIONS

- 1. With the consent of the Department students taking Honours or a Major in Spanish may substitute Italian 1 for one of their lecture courses in Spanish.
- 2. Students may not count more than two courses for a degree but Italian 10 or 11 may be offered instead of Italian 2.
- 3. Italian 1 is a prerequisite to Italian 2, and Italian 2 or first division Italian 1, is a prerequisite to all other courses.
 - 4. No extra-mural instruction is offered in Italian.

COURSES OF INSTRUCTION

ITALIAN 1. ELEMENTARY ITALIAN.

Oral Exercises, Dictation, Grammar, Composition.

Reading of extracts from Modern Italian authors.

Reading and translation of Castelnovo, O bere o affogare and Pirandello, Lumíe di Sicilia.

Reading of L'Italia by Wilkins and Marinoni (University of Chicago Press).

The time-table will be arranged by consultation at the beginning of the session.

ITALIAN 2. ADVANCED ITALIAN.

Conversation, Composition, Study of Wilkins and Altrocchi, Italian Short Stories; translation and literary study of Goldoni, La Locandiera, and of Modern Italian poetry to be announced at the beginning of the session.

ITALIAN 10. MEDIO EVO E RINASCIMENTO.

Dante, Boccaccio, Ariosto, Tasso.

ITALIAN 11. ETÀ MODERNA.

Goldoni, Parini, Alfieri, Monti, Foscolo, Manzoni, Leopardi, Carducci.

ENGLISH LANGUAGE AND LITERATURE

PROFESSOR—B. K. Sandwell, B.A.
PROFESSOR—J. F. Macdonald, M.A.
ASSOCIATE PROFESSOR—James A. Roy, M.A.
ASSISTANT PROFESSOR—H. Alexander, M.A.
INSTRUCTOR—Wilhelmina Gordon, M.A.
TUTORS—Frances Briffet, Kathleen Dolan, B.A., Bessie Billings,
Marion Ross.

REGULATIONS

1. English 1 and 2 are required of all candidates for a degree in Arts. English 1 is a prerequisite to English 2, and English 2 is a prerequisite to all other courses, though one or more of the following may be taken concurrently with it: 4a, 10a, 14b.

Students allowed English 1 on Honour Matriculation who in the judgment of their instructors in English 2 need further work in English Composition, will be required to take English 4a as an extra class. See Admission to the Faculty of Arts, section 8.

- 2. Students making English their Minor subject must take courses 1 and 2 and four half-courses.
- 3. Students making English their Major subject must take courses 1 and 2 and six half-courses.
- 4. Students making English one of their two Honour subjects must take from six to ten half-courses in addition to courses 1 and 2. All Honour students in English must take 10a and 14b. Those who regard English as their main subject must include 99 a-b.
- 5. Extra-mural instruction is limited to the following courses, marked below with an asterisk: 1, 2, 4a, 10a, 11b, 14b, 18a, 20b, 21b, 22a, 24b, 27a, 40a. Of these, only English 1 and 2 are regularly given in the summer session. In the summer of 1925, however, extra-mural work will be offered also in 18a, 27a, 20b, and 40a.

COURSES OF INSTRUCTION

*ENGLISH 1. COMPOSITION AND LITERATURE.

A practical course in Composition, with collateral reading. In the examination separate markings will be given for knowledge of subject and for correctness of English composition, and students must obtain the necessary standard in each department. King's English (Abridged, Oxford Press), Selected English Essays, Selected Short Stories (Numbers 32, 193, and 228 in the World's Classics Series), and Shakespeare's As You Like It.

Tuesday, Thursday, and Saturday at 8.

*ENGLISH 2. GENERAL SURVEY OF ENGLISH LITERATURE.

The course is intended to provide a general knowledge of the history and development of English Literature, and to lay a foundation for the advanced specialized courses. It deals with the principal types of English verse; with various literary forms, such as the ballad, sonnet, epic, and drama; and with great writers, great books, and great movements. This part of the work will be based on Moody and Lovett's History of English Literature (or Strong's Short History of English Literature), and Manly's English Prose and Poetry. In addition the following texts will be carefully studied in the class-room: Chaucer's Prologue (lines 1-207, 285-360, 477-528), Shakespeare's Hamlet, Milton's Paradise Lost (Book I), Carlyle's Essay on Burns.

Section A. Monday, Wednesday, and Friday at 9. Section B. Tuesday, Thursday, and Saturday at 9.

*ENGLISH 4a. COMPOSITION.

Models of clear and effective English will be studied and frequent exercises will be assigned.

Tuesday, Thursday, and Saturday at 9. First term, Miss Gordon.

ENGLISH 6a or 6b. ORAL ENGLISH.

Theoretical and practical treatment of the sounds of speech in connection with clear articulation and good vocal tone in public speaking and reading. With a short practical course in the principles of argumentation. This half-course will be given in both the first and second terms, but not more than 25 students will be registered in it for any one term. It is open to all students in Arts, but in case of more than 25 seeking to register, preference will be given to advanced students.

Tuesday, Thursday, and Saturday at 10. Professors Sandwell and Alexander.

*ENGLISH 10a. OLD ENGLISH.

Outlines of Anglo-Saxon Grammar. Translation and study of the following passages from Bright's Anglo-Saxon Reader: Account of the Poet Caedmon, Wars of Alfred the Great, Preface to the Cura Pastoralis, the Voyages of Ohthere and Wulfstan, the Conversion of Edwin, Assumption of St. John the Apostle (three pages), the Offering of Isaac, the Battle of Maldon (11, 244-325), selected passages from Beowulf, Il. 320-370, 711-791, 1558-1651.

Open only to Honour students.

Monday, Wednesday, and Friday at 9. Professor Alexander.

*ENGLISH 11b. HEBREW LITERATURE IN ENGLISH TRANSLATION.

A study of the origin and nature of this literature from 1100 to 100 B.C. Special attention in this outline will be given to the ancient stories and the poetical literature.

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Text-books: The Life and Literature of the Ancient Hebrews by Lyman Abbott. Gunkel's Legends of Genesis.

Books of Reference: The Literary Study of the Bible by R. G. Moulton. Kautzsch's Outline of Hebrew Literature.

Tuesday, Thursday, and Saturday at 11. Professor Jordan.

*ENGLISH 14b. MIDDLE ENGLISH.

A brief survey of the most important transition texts after 1100 and the main linguistic changes, followed by a study of Chaucer's development as a poet based on a general knowledge of the following poems: The Romaunt of the Rose, the Book of the Duchesse, the Parlement of Foules, Troilus and Criseyde, The House of Fame, Prologue to the Legend of Good Women, The Canterbury Tales. A detailed study of the Prologue, and The Nonne Preestes Tale. The Works of Chaucer (Oxford University Press).

Open only to Honour students.

Monday, Wednesday, and Friday at 9. Professor Alexander.

*ENGLISH 18a. SHAKESPEARE.

A study of Shakespeare's development as a dramatist, involving a general knowledge of The Two Gentlemen of Verona, The Comedy of Errors, Titus Andronicus, Romeo and Juliet, Richard III, King Henry IV, Twelfth Night, Julius Caesar, and Antony and Cleopatra; and a detailed knowledge of Othello, King Lear, and The Tempest.

Monday, Wednesday, and Friday at 11. Professor Macdonald.

*ENGLISH 20b. NON-DRAMATIC LITERATURE FROM SPENSER TO MILTON.

The following subjects will be discussed: Social, political and literary conditions in the later 16th century; the Elizabethan lyric; the poetry of Spenser; Elizabethan literary criticism; the poetry of Milton; the 17th Century lyric. The following will be studied in detail: Spenser, The Shepherd's Calendar, The Four Hymns, Prothalamion, Epithalamion, The Faerie Queene, Book 1; Sidney, An Apology for Poetry; Shakespeare, the Sonnets; various Elizabethan and 17th Century lyrics; Milton, the Sonnets, Lycidas, Comus, Areopagitica, Paradise Lost, Paradise Regained, Samson Agonistes.

Open only to students who have taken 18a.

Tuesday, Thursday, and Saturday at 10. Miss Gordon.

*ENGLISH 21b. CLASSICAL SOURCES OF ENGLISH LITERATURE.

A survey of the Greek and Latin cultures and of their influence upon English thought and expression. Examples of the work of those classical authors who have most influenced English literature will be read in translation, together with the English writers most affected by them. No knowledge of Greek is required, and no Latin beyond Latin 1 and 2. The critical texts will include Gilbert Murray, Ancient Greek Literature; G. S. Gordon, English Literature and the Classics; J. W. Duff, The Writers of Rome.

Monday, Wednesday, and Friday at 10. Professor Sandwell.

*ENGLISH 22a. THE EIGHTEENTH CENTURY.

The chief literary movements from 1660 to 1786 will be studied. The following texts will be read:

Dryden's Absalom and Achitophel and Preface to Fables:
Pope's Moral Essays, I and III, and Imitations of Horace;
Prior; Gay; Chesterfield; H. Walpole; Johnson's Vanity
of Human Wishes; Cowper's Task, Book I; Swift's Gulli
ver's Travels, Tale of a Tub, and Journal to Stella; Johnson's Lives of Pope, Collins and Gray; Boswell's Life of
Johnson (the events of 1773); Thomson's Winter; selected
poems of Collins, Gray and Burns; Gibbon's Decline and
Fall of the Roman Empire (chapters 37 and 38); Burke's
Speech on Conciliation with the Colonies; selected letters
of Lady Mary Wortley Montagu, Pope, Swift, Walpole,
Gray, Cowper, Chesterfield.

Tuesday, Thursday, and Saturday at 9. Professor Sandwell

*ENGLISH 24b. THE PERIOD OF THE ROMANTIC REVIVAL.

English Poetry and Prose from 1786 to 1824. A general knowledge of the following texts will be required:

Wordsworth: The Prelude; The Excursion, Book I; Lyrical Ballads (1800); The Preface to Lyrical Ballads. Scott: Marmion. Crabbe: The Borough. Byron: The Prisoner of Chillon; The Bride of Abydos; Childe Harold, Book III. Keats: Sleep and Poetry; Isabella; The Eve of St. Agnes; Lamia; Hyperion; The Odes. Shelley: Alastor; Prometheus Unbound. Coleridge, Biographia Literaria (Chapters XIV-XXII). Keats: Letters. Shelley: A Defence of Poetry. Jeffrey: Essays on Keats and Wordsworth.

Tuesday, Thursday, and Saturday at 9. Professor Roy.

*ENGLISH 27a. VICTORIAN PROSE.

A study of the main movements in nineteenth century thought, with special attention to the work of Carlyle, Ruskin, Arnold, the Oxford School, Newman, Froude, Mill, Macaulay, Borrow, FitzGerald, Morris, George Eliot, Meredith, Hardy, Lang, Robert Louis Stevenson, Butler, Wells, Gissing, and other writers in short selections.

Tuesday, Thursday, and Saturday at 11. Professor Sandwell.

English 99

ENGLISH 29b. VICTORIAN AND LATER POETRY.

A rapid survey of the main movements in English poetry since 1832, with detailed study of a considerable part of the poetry of Tennyson, Browning, Arnold, Clough, Mrs. Browning, the Rossettis, Swinburne, Meredith, and Morris. In addition there will be lectures on later writers and prescribed reading from their works. Students will use as texts for class work Bronson's English Poems: Nineteenth Century, and An Anthology of Modern Verse (Methuen & Co.).

This course is not given extra-murally.

Tuesday, Thursday, and Saturday at 11. Professor Macdonald.

ENGLISH 33a. AMERICAN AND CANADIAN LITERATURE.

This course is given in alternate years only. Not given in 1925-6.

ENGLISH 36b. THE ENGLISH DRAMA FROM 1660 TO 1832.

A study of the development of the drama from 1660 to 1832. English 18a is a pre-requisite. The course is not given extramurally and is intended for fourth-year students.

Monday, Wednesday, and Friday at 11. Professor Macdonald.

ENGLISH 38b. ENGLISH DRAMA FROM 1832 TO THE PRESENT.

This course is given alternately with English 36b. Not given in 1925-26.

*ENGLISH 40a. THE ENGLISH NOVEL.

A study of the development of the English Novel. Works by the following writers will be read: Scott, Jane Austen, Disraeli, Dickens, Thackeray, Kingsley, George Eliot, Trollope, Meredith, Hardy, Stevenson, Henry James, Kipling, H. G. Wells, Galsworthy, Arnold Bennett, Hugh Walpole, Conrad. Essays will be read in class. Books recommended for consultation: Raleigh, The English Novel; Saintsbury, The English Novel; Follett, The Modern Novel; Lives of various novelists in English Men of Letters Series.

Tuesday, Thursday, and Saturday at 10. Miss Gordon.

ENGLISH 42a. HISTORY OF ENGLISH CRITICISM.

Introductory:—On the meaning and function of criticism. Brief survey of Greek Criticism before Aristotle, Aristotle's Poetics, Longinus On the Sublime; Latin Criticism, Horace's Ars Poetica, Quintilian's Institutes. Mediaeval Criticism, Dante's De Vulgari Eloquio; Renaissance Criticism, The Pléiade.

Elizabethan Criticism, The Neo-Classic Creed, Dryden and his contemporaries, Addison to Johnson, the Dissolvents of Neo-Classicism, Lessing, the precursors of the Romantic Revolt in England, the restatement of criticism, Wordsworth and Coleridge, the Occult School, Hazlitt, English Criticism between Coleridge and Arnold, English Criticism between 1860 and 1900, Matthew Arnold. Knowledge of the following texts will be necessary; Sidney's Apologie; Dryden's Defence of Dramatic Poesy and other critical essays; Addison's critical writings; Lives of the Poets; Wordsworth's Prefaces and the Criticism of Coleridge, Lamb, Hazlitt, Arnold and Pater.

Open only to advanced students.

Monday, Wednesday, and Friday at 10. Professor Roy.

ENGLISH 50b. CONTEMPORARY TENDENCIES.

A critical consideration of the work and influence and predominant thought of such writers as Ibsen, Hauptmann, Sudermann, Rostand, Maeterlinck, Toller, Rolland, Wassermann, Cabell, the Georgians and the American Vers Librists, the Little Theatre Movement. The trend of contemporary criticism and of the short story will also be studied.

This course is open only to advanced students.

Monday, Wednesday, and Friday at 11. Professor Roy.

ENGLISH 99 a-b. READING COURSE AND SEMINAR FOR HONOUR STUDENTS. Seminars, consisting ordinarily of about twelve meetings of two hours each during the academic year, will be arranged at suitable hours and dates in the subjects indicated below, and additional seminars may be arranged in other similar subjects if a sufficient number of students apply at the beginning of the year and an instructor is available. A large amount of reading and some independent investigation is expected of each student, and the results of such work must be constantly communicated to the seminar in the form of reports or essays. Under ordinary circumstances this course should not be taken until the student's final year.

SEMINARS

- (1) ELIZABETHAN DRAMA OTHER THAN SHAKESPEARE (Professor Macdonald). Neilson's *Chief Elizabethan Dramatists* will be the basis of the critical work for this course, which is open only to those who have already taken 18a.
- (2) SHELLEY AND KEATS (Miss Gordon). Shelley's Letters (ed. Roger Ingpen), and Defence of Poetry, Colvin's Life of Keats, Keats' Letters (ed. Colvin), and the complete poetical works of both

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writers. The subject-matter will include Shelley's political thought, Keats' ideas of poetry, and the metrical technique of both. Open only to those who have taken 24b.

- (3) WORDSWORTH AND COLERIDGE (Professor Roy).
- (4) ADVANCED MIDDLE ENGLISH (Professor Alexander). Selections from the Ormulum, Layamon's Brut, Ancren Riwle, Ayenbite, Piers Plowman, Middle English Romances, lyrical and political poems. Open only to those who have taken 10a and 14b.
- (5) Identical with History 99 (iv). See History Department.

HISTORY

PROFESSOR OF HISTORY AND DOUGLAS PROFESSOR OF COLONIAL HISTORY—Duncan McArthur, M.A., F.R.S.C.

ASSOCIATE PROFESSOR-A. E. Prince, M.A.

ASSOCIATE PROFESSOR-Reginald G. Trotter, Ph.D.

REGULATIONS

- 1. Students taking only one or two courses must select from History 1, 2, 3.
- 2. Normally a student taking a Minor in History will choose four courses from History 1, 2, 3, 4, and 16. But he is at liberty to substitute for one of the lecture courses History 12 or 13, provided that he takes unmodified the ordinary Honour examination in these courses. A Major in History consists of one additional course.
- 3. Students reading for Honours must take from 5 to 7 full courses, or their equivalent, including 1 or 16, 2 or 3, 12, 13, and 99, if History is their main subject. Courses 30a and 31b may be taken by students reading for the degree of M.A. (See further under regulations for M.A.).
- 4. Cases in which students may desire to modify the order of the courses arranged above will be considered by the professors in the department.
- 5. A knowledge of historical geography is required in all classes. The most accessible atlases are:

Ramsay Muir, Philips' New Historical Atlas for Students (Geo. Philips & Son).

The Everyman Literary and Historical Atlas of Europe (Dent).

E. W. Dow, Atlas of European History (Holt & Co.).

F. W. Putzger, Historischer Schul-Atlas (Leipsig).

W. R. Shepherd, Historical Atlas (Holt & Co.).

- 6. Any half-courses in the department of Economics which deal with economic history or constitutional law and practice may be counted as half-courses in History. But in all such cases, the student will consult the Professor of History.
- 7. The courses marked with an asterisk are open to extra-mural students during the winter of 1925-26. Courses 1, 2, 3, 12, 13, 16, 21b, and 30a are open to extra-mural students in the summer of 1925.

COURSES OF INSTRUCTION

*HISTORY 1. BRITISH HISTORY SINCE 1714.

The lectures will deal with such topics as the following: The Hanoverian succession as the corollary of the Revolution of 1688; the development of party government and the cabinet; Imperial expansion and dismemberment; eclipse of the Whigs; the French Revolution and domestic reaction; the Industrial and Social Revolutions; the democratization of the constitution; the growth and government of the new Empire; Ireland; Britain and the Powers in the nineteenth century; the Empire in the World War; problems of peace and reconstruction.

- T. F. Tout, Advanced History of Great Britain, Part III (Longmans).
- C. Grant Robertson, England under the Hanoverians (Methuen).
- G. M. Trevelyan, British History in the Nineteenth Century (Longmans).

Tuesday, Thursday, and Saturday at 8. Professor Trotter. *HISTORY 2. EUROPEAN HISTORY FROM THE RENAISSANCE TO THE CONGRESS OF VIENNA—1453-1815.

The following subjects will be discussed in the lectures: The Italian and trans-Alpine Renaissance; the Spread of the Reformation; the Hapsburg Ascendency; the Thirty Years' War; the French Ascendency; the Rise of Prussia; the Rise of Russia; the Partitions of Poland; the Enlightenment and the Enlightened Despots; the French Revolution; the Napoleonic Era.

Hayes, Political and Social History of Modern Europe, Vol. I. (Macmillan).

Fisher, Napoleon (Home University Library, Williams and Norgate).

Tuesday, Thursday, and Saturday at 11. Professor Prince. *HISTORY 3. COLONIAL HISTORY.

Lectures will be given on the general course of Colonial Development down to 1783. These will treat of the trade routes of the Old World; the voyages of discovery; the growth of theories of colonization; Spain, France, and England in America, and the reaction of the new world upon the old; the Old Colonial system and its breakdown after the Seven Years' War; the American Revolution. Some of the more significant phases of the history of Canada to 1841 will be discussed.

Cheyney, European Background of American History.

Bourne, Spain in America.

Becker, Beginnings of the American People.

Lucas, New France.

Grant, History of Canada.

Monday, Wednesday, and Friday at 11. Professor McArthur.

*HISTORY 4. GREEK AND ROMAN HISTORY.

Greek History. Bury, History of Greece; as an introduction to the subject the first two Parts of Breasted, Ancient Times, should be read.

Roman History. A general account of the history and culture of Rome, down to the extinction of the Empire in the West 476 A.D., based on A History of Rome, by A. E. R. Boak (Macmillan).

Other manuals recommended are Shuckburgh, History of Rome, or Pelham, Outline of Roman History, and Stuart Jones, Roman Empire.

Tuesday, Thursday, and Saturday at 10.

HISTORY 10a. HEBREW HISTORY.

A short sketch of the history of ancient Egypt and Babylonia as an introduction to the study of the origin of the Hebrew people and the rise of the Kingdom. Hebrew history down to the beginning of the Roman rule in Palestine, special attention being given to the conflict between the Hebrew and Greek civilizations after the time of Alexander the Great.

Works of reference: History of the Egyptians by J. H. Breasted; History of the Babylonians and Assyrians by G. S. Goodspeed.

Text-books on the History of the Jewish People:

The Babylonian, Persian and Greek Periods by C. F. Kent. The Maccabean and Roman Period by J. S. Riggs.

Students selecting this Course will consult Professor Jordan.

Tuesday, Thursday, and Saturday at 11.

*HISTORY 12. EUROPEAN HISTORY FROM THE FALL OF THE WESTERN EMPIRE TO THE FALL OF THE EASTERN EMPIRE, 476-1453.

The following subjects will be discussed in the lectures:—The Decline of Roman Civilization and Government in the West; the Barbarian Invasions; the Germanic Kingdoms; Monasticism, the Papacy, and the Expansion of the Church; the Rise of the Frankish Empire; Celtic and Anglo-Saxon Missionaries and Scholars; the New Invaders—Norsemen, Magyars, Saracens; the Holy Roman Empire; the Capetian Monarchy; Cluny, Hildebrand, and the Investiture Controversy; Feudalism, Chivalry, the Crusades; Towns and Economic Development; the Universities, the Friars, the Scholastics; the Conciliar Movement; the Dawn of the Renaissance.

Thorndike, History of Mediaeval Europe (Houghton, Mifflin & Co.).

Note:—In essays and seminar classes students will be introduced to a number of mediaeval documents, mainly in translation. Thatcher and McNeal, Source-Book of Mediaeval History.

Monday, Wednesday, and Friday at 9. Professor Prince.

*HISTORY 13. THE DEVELOPMENT OF BRITISH COLONIAL POLICY TO 1919.

The following subjects will be discussed in the lectures: The causes of early overseas settlement; the relation of the colonies to the Crown and parliament; the colonial policy of Cromwell; the restoration and extension of royal government; the revolution of 1688 and colonial policy; the governor and colonial assemblies; the causes of the loss of the American colonies; the influence of the American situation on British colonial policy; the Industrial Revolution and emigration; settlement in Australia and New Zealand; Gibbon Wakefield; the problem of colonial self-governerment in the West Indies, Canada, Australia, New Zealand, and South Africa; the expansion of the Empire; the Empire and British foreign policy; India, Egypt and the Near East; the government of the Empire; the Colonial and Imperial Conferences, the League of Nations and the Empire.

Texts:

- H. E. Egerton, A Short History of British Colonial Policy (Methuen).
- G. L. Beer, The Origins of the British Colonial System, 1578-1660 (Macmillan).

The Old Colonial System (Macmillan).

British Colonial Policy, 1754-1765 (Macmillan).

- H. E. Egerton, The American Revolution (Oxford).
- A. B. Keith, Selected Speeches and Documents on British Colonial Policy, 1763-1917 (Oxford).
- H. E. Egerton, British Colonial Policy in the Twentieth Century (Methuen).

Additional reading will be prescribed for extra-mural students. Monday, Wednesday, and Friday at 10. Professor McArthur.

*HISTORY 15a. EUROPE SINCE 1815.

The following subjects will be discussed in the lectures: The heritage of the French Revolution; the "Confederation of Europe"; the Metternich System; the Industrial Revolution; liberal and republican movements; the second French Empire; the Unification of Germany and the Franco-Prussian War; the extension of Russia; the Near Eastern Question and the Congress of Berlin; Imperial Germany; the third French Republic; Austria and Russia at the end of the century; Great Britain's rôle in nineteenth century Europe; the "Expansion of Europe"; intrenational rivalries and the Balance of Power in the Concert of Europe; the Great War and the new nations; the League of Nations.

- E. R. Turner, Europe Since 1789 (Doubleday, Page and Co.).
- H. J. Fleure, The Peoples of Europe (Oxford Press).

- J. H. Robinson and C. A. Beard, Readings in Modern European Hictory, Vol. II (Ginn).
 - A. Oakes and R. B. Mowat, The Great European Treaties of the Nineteenth Century (Oxford Press).

 Monday, Wednesday, and Friday at 11. Professor Trotter.
- *HISTORY 16. MEDIAEVAL ENGLISH HISTORY.

An introductory study of the development of England and English institutions up to 1485. The topics discussed will include the following: Early invaders; the Romans in Britain; the Teutonic conquest and settlement; the origins and growth of the Anglo-Saxon constitution; the Danes and Alfred the Great; the Norman Conquest; Church and State; Feudal institutions; the rise of Parliament; the development of the administrative system; Edwardian wars against Scotland and France; the Lancastrian Constitutional experiment; the Lollards; the Wars of the Roses; social England in the later Middle Ages.

T. F. Tout, Advanced History of Great Britain, Pt. I.

D. J. Medley, Student's Manual of English Constitutional History, or

T. P. Taswell-Langmead, English Constitutional History.

This course is open to both Pass and Honours students; but the latter will be required to study certain documents in W. Stubbs' Select Charters.

Tuesday, Thursday, and Saturday at 9. Professor Prince.

*HISTORY 18a. ENGLAND UNDER THE TUDORS, 1485-1603.

The following subjects will be discussed in the lectures: The nature of the Tudor "popular absolutism"; Henry VII and the establishment of strong government; the New Learning and the Oxford Reformers; Henry VIII and the revolt from Rome; the Protestant Reformation under Edward VI; the restoration of Catholicism under Mary; Elizabeth's ecclesiastical "middle way"; Elizabeth as a diplomatist; Elizabeth and Mary Queen of Scots and the Catholic Revival; the Tudor navy and maritime activity; Philip II and the Spanish Armada; commercial and colonial enterprise; social and economic progress at home; the Irish problem under the later Tudors; the "Age of Shakespeare"; the beginnings of Puritanism and parliamentary resistance to autocracy.

T. F. Tout, Advanced History of Great Britain, Part II (Longmans).

H. A. L. Fisher, Political History of England, 1485-1547 (Longmans).

A. F. Pollard, Political History of England, 1547-1603 (Longmans).

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H. M. Stephens, Select Documents of English Constitutional History (Macmillan).

This course is open to both Pass and Honours students.

Tuesday, Thursday, and Saturday at 9. Professor Trotter.

HISTORY 19b. ENGLAND UNDER THE STUARTS, 1603-1714.

The following subjects will be discussed in the lectures: Constitution and nation at the beginning of the seventeenth century; the clash of King and Parliament; the personal rule of Charles I; the Puritan Revolution and the republican experiment under the Stuarts; social and cultural aspects of the period.

- T. F. Tout, Advanced History of Great Britain, Part II (Longmans).
- G. M. Trevelyan, England under the Stuarts (Methuen).
- S. R. Gardiner, The First Two Stuarts and the Puritan Revolution (Longmans).
- Sir Charles Firth, Oliver Cromwell and the Rule of the Puritans in England (Putnam).
- H. M. Stephens, Select Documents of English Constitutional History (Macmillan).

This course is open to both Pass and Honours students.

Tusday, Thursday, and Saturday at 9. Professor Trotter.

HISTORY 20a. THE BASIS OF FRENCH CANADIAN NATIONALITY: a study of French civilization in Canada in the seventeenth and eighteenth centuries.

This class will deal with: The French institutions in Church and State transferred to Canada in the 17th century; the Jesuit missions; Laval, and the Roman Catholic Church in Canada; Louis XIV and the colonial policy of Colbert; Talon and Royal control; French feudalism in Canada; the fur trade in relation to the expansion of New France; La Salle and western exploration; the relations between New France and New England; the conflict of interest of France and England in America; the Seven Years' War in America.

Munro, The Seignioral System in Canada.

Parkman, The Pioneers of France in the New World; The Jesuits in North America; The Old Régime; Count Frontenac; La Salle; A Half Century of Conflict; Montcalm and Wolfe.

Chapais, Le Marquis de Montcalm.

And contemporary sources to be assigned in class.

Books of reference on French History (1600-1763):

Grant, The French Monarchy.

Lavisse, Histoire de France, tomes 6-8.

Lodge, Richelieu.

Cambridge Modern History, vol. 5, The Age of Louis XIV.
Tuesday, Thursday, and Saturday at 10. Professor McArthur.
HISTORY 21b. FRENCH AND BRITISH IN CANADA—THE FIRST PHASE, 17631812.

This class will deal with: The first days of British rule; the administrations of Murray and Dorchester; the Quebec Act; Canada and the American War; the United Empire Loyalists, their settlement and influence on Canadian development; the Constitutional Act and the division of the Province; Parliamentary institutions in Lower and Upper Canada; the war of 1812.

Lucas, A History of Canada, 1753-1812.

Doughty and Shortt, Documents relating to the Constitutional History of Canada, 1759-91.

Doughty and McArthur, Documents relating to the Constitutional History of Canada, 1791-1818.

Chapais, Cours d'histoire du Canada.

Books of reference:

Canada and Its Provinces, vol. 3.

Bradley, Lord Dorchester.

Tuesday, Thursday, and Saturday at 10. Professor McArthur. History 30a. The Struggle for Responsible Government in Canada, 1812-1849.

This is an advanced course and may be offered as part of the work for the degree of M.A. The lectures and seminars will deal with the following subjects: The social and economic causes of discontent; Robert Gourlay; self-government in the Maritime Provinces; early investigations and proposals of reform; the Constitutional Party; Mackenzie and Papineau; the Rebellion of 1837; the Durham Mission and Report; the Union of the Canadas; Sydenham and reconstruction; Liberalism and reaction as represented by Bagot and Metcalfe; the work of Lord Elgin; British policy; the Rebellion Losses Bill and the adoption of the practice of Responsible Government.

Doughty and McArthur, Documents relating to the Constitutional History of Canada, 1791-1818.

Lucas, Lord Durham's Report, Vols. I and II.

The lives of Mackenzie, Papineau, Baldwin, Lafontaine, Wilmot, Tilley, Hincks, Sydenham and Elgin in *The Makers of Canada*.

Morison, British Supremacy and Canadian Self Government (Gundy),

and other contemporary sources to be assigned during the course.

Tuesday, Thursday, and Saturday at 11. Professor McArthur. HISTORY 21b. CANADIAN DEVELOPMENT, 1849-1919.

The development of party government; economic conditions; Reciprocity with the United States; Canada and the American

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Civil War; the Confederation Movement—its origin and development; the Canadian Confederation; the problems of the Dominion; Western expansion; railway development; the National Policy; Provincial rights; the rise of Laurier; immigration and expansion; Imperial problems; Canada and the Colonial and Imperial Conferences; the Great War and its influence on Canadian status and development.

Pope, The Life of Sir John A. Macdonald.

Pope, The Letters of Sir John A. Macdonald.

The Lives of Brown, Cartier, Howe and Tupper in The Makers of Canada.

Skelton, Life and Times of Sir A. T. Galt.

Skelton, Life and Letters of Sir Wilfrid Laurier.

Trotter, Canadian Federations Its Origins and Achievement.

and contemporary sources to be assigned.

Tuesday, Thursday, and Saturday at 11. Professor Trotter. HISTORY 99. Honour students taking their Reading course in History will select one of the following options:

 (i) Statesmen and Idealists of Greece and Rome: Breasted, Ancient Times; Plutarch, Pericles and Fabius Maximus (Loeb Classical Library); Warde Fowler, Julius Caesar.

(ii) The Age of Wycliffe and Chaucer: G. M. Trevelyan, England in the Age of Wycliffe; C. G. Coulton, Chaucer and his England; J. Jusserand, English Wayfaring Life in the Fourteenth Century; D. Hughes, Illustrations of Chaucer's England; Selections from Piers Plowman.

(iii) The History of English Thought in the early nineteenth century: C. E. M. Joad, Introduction to Modern Political Theory (Oxford); A. V. Dicey, Law and Opinion in England (Macmillan); J. Bentham, A Fragment on Government (Clarendon), Theory of Legislation (Clarendon); J. S. Mill, Utilitarianism, Liberty, and Considerations on Representative Government (Everyman and World's Classics; Graham Wallas, Francis Place (Longmans).

(iv) The England of Burke: G. O. Trevelyan, The Early History of Charles James Fox; Boswell, The Life of Samuel Johnson; the Letters of Horace Walpole (extracts); the Letters of Junius; Burke, Thoughts on the present Discontents, American Speeches, Speech on the Trial of Warren Hastings, Speeches on Economical Reform, Reflection on the French Revolution; Thomas Paine, The Rights of Man; Gibbons, Autobiography; the Letters of Chesterfield (Selections); Adam Smith, The Wealth of Nations (Selections).

Courses (ii) and (iv) are designed especially for students doing Honours work in English and History. Seminars will be conducted by the Departments of English and History.

POLITICAL AND ECONOMIC SCIENCE

Associate Professor-W. A. Mackintosh, M.A., Ph.D.

ASSISTANT PROFESSOR—C. E. Walker, B.Sc.Acc., C.A.

ASSISTANT PROFESSOR-R. G. H. Smails, A.C.A.

ASSISTANT PROFESSOR-H. G. Caldwell, B.A., B.Com.

LECTURER- F. A. Knox, B.A.

LECTURER-W. H. Wynne, M.A.

TUTORS-R. O. Merriman, B.A.

J. A. Walker.

E. W. Cross, B.A.

REGULATIONS

- 1. Students taking only one course in this subject must choose either Economics 1 or Economics 2; it is not necessary to take Economics 1 before Economics 2. Students taking two courses should select Economics 1 and Economics 2, but other combinations may be made with the sanction of the Department.
- 2. Students on a Pass Course who choose this subject as their Minor must take Economics 1, 2, 5, and two other half-courses.
- 3. Students on a Pass Course who choose this subject as their Major must take the work in paragraph 2 and two additional half-courses.
- 4. Students seeking Honours in this subject are required to take from five to seven full courses or their equivalent, including Economics 1 and 2, at least one of 10 and 11, one of 30 and 31, and four of 12, 13, 15, 16, 19, 23, 24, 25, 35, 36, 38, and 42. Those making Economics their main subject must include course 99.
- 5. For requirements for the B.Com. degree, consult the special announcement of the courses in Commerce and Administration.
- 6. The following courses (which are marked with an asterisk below) may be taken by extra-mural students during the session of 1925-26: 1, 2, 5, 11, 16, 17, 19, 30, 42, 60, 62, 63. The following courses may be taken extra-murally during the summer session, 1925: 1, 2, 12, 16, 17, 23, 25, 42, 62, 63.
- 7. Courses 1, 2 and 5 are whole courses, running throughout the year; all others are ordinarily given as semester or half-courses, though certain related courses may be required to be taken in sequence.

Courses 1-9 are introductory; 1 and 2 are fundamental for both Pass and Honour students; courses 3 to 9 are not open to Honour students. Courses 10 to 29 deal with economic and 30 to 49 with political and social questions; 50 to 69 are Commerce and Administration courses. A list of the courses to be offered in this and succeeding years follows:

- 1. Introduction to Economics.
- 2. Introduction to Politics.
- 5. Principles of Economics.
- 10. Economic Theory: Production
- 11. Economic Theory: Distribution and Price Problems.
- 12. Socialism and Relation of the State to Industry.
- 13. Problems of Labor.
- 15. Economic History, United Kingdom and Europe.
- 16. Economic History, Canada and the United States.
- 17. Economic Geography, introductory.
- 19. Statistical Theory and Method.
- 21. Economics of Transportation.
- 22. Economics of Agriculture.
- 23. International Trade and Tariff Policy.
- 24. Public Finance and Taxation.
- 25. Financial Organization of Society.
- 26. Canadian Banking System.
- 27. Foreign Banking Systems.
- 30. Political Theory since 1800.
- 31. Current Social Theories in the United States.
- 32. International Law and Organization.
- 33. Imperial Relations.
- 35. Canadian Government and Constitutional Law.

- 36. Government of United Kingdom.
- 37. Governments of Continental Europe.
- 38. Government of United States.
- 39. Modern Democracies.
- 40. Municipal Government.
- 41. National Problems.
- 42. Social Problems.
- 43. Methods of Social Investigation.
- 44. Methods of Social Amelioration.
- 45. Advanced Seminar Course in Social Problems.
- 46. Supervised Field Work.
- 50. Industrial Management.
- 52. Marketing, Domestic.
- 53. Marketing, Foreign.
- 54. Business Finance.
- 55. Investments.
- 57. Business Statistics.
- 59. Business Policy.
- 60. Commercial Law.
- 61. Commercial Law, advanced.
- 62. Elements of Accounting.
- 63. Elements of Accounting.
- 64. Intermediate Accounting.
- 65. Intermediate Accounting.
- 66. Cost Accounting.
- 67. Auditing.
- 69. Accounting Problems.
- 99. Seminar Courses for Honour students.

*ECONOMICS 1. INTRODUCTION TO ECONOMICS.

A general discussion of the principles governing the production, consumption, exchange and distribution of wealth, and the application of economic principles to such concrete problems as money, banking, taxation, trusts, the tariff, and the labor movement.

Taussig, Principles of Economics (Macmillan).

Extra-mural students will require in addition

Marshall, Readings in Industrial Society (University of Chicago Press).

Bulletins in Economics, furnished through the Department.

Tuesday, Thursday, and Saturday at 10. Professor Mackintosh. *Economics 2. Introduction to Politics.

An approach to the study of the state, its origin, form and activities, and a study of the working of governments, particularly those of the United Kingdom, United States and Canada.

Leacock, Elements of Political Science.

Assigned readings.

Monday, Wednesday, and Friday at 10.

ECONOMICS 3. ECONOMICS FOR APPLIED SCIENCE STUDENTS.

Monday and Wednesday at 9. Professor Walker.

ECONOMICS 4. ECONOMICS FOR MEDICAL STUDENTS.

Monday and Friday at 9. Professor Smails.

*ECONOMICS 5. PRINCIPLES OF ECONOMICS.

This course is designed for Pass students in Arts and students in Commerce. A more detailed and fundamental consideration will be given to the problems taken up in Economics 1 in order that a sound theoretic basis may be established for more advanced work. It can only be taken by those who have previously taken Economics 1.

Assigned Readings.

Tuesday, Thursday, and Saturday at 10. Mr. Knox.

*Economics 11b. Economic Theory; Distribution.

This course will include a historical study of the theories of classical economists as well as a discussion of more recent contributions to economic theory.

Open only to Honour students.

*Economics 16a. Economic History of Canada and United States.

A study of the economic development attendant on the expansion of European settlements in North America. An elementary knowledge of the main facts of the history of Canada and of the United States, such as is to be obtained from a reading of Grant's History of Canada, and Max Farrand's The Development of the United States, is a prerequisite. The importance of geographical factors in American history makes Economics 17a a useful introduction. No textbook is assigned in the Canadian field as students will be expected to read widely in the literature of Economic History.

Coman, Industrial History of the United States (Macmillan). Tuesday, Thursday, and Saturday at 9. Professor Mackintosh. *Economics 17a. Economic Geography.

This course is designed to provide the student with a considerable body of material, descriptive of modern industry and commerce, and as a study of the influence of geographic factors on the rise, dispersion and concentration of industries, and on the location of markets and commercial routes.

Bartholomew, Atlas of Economic Geography (Oxford University Press).

Tuesday, Thursday, and Saturday at 8. Mr. Knox.

*Economics 19a (56a). Introduction to Statistics.

A course in the collection, analysis, and charting of statistical data. Special attention will be given to graphic and diagrammatic presentation.

Secrist, Introduction to Statistics (Macmillan).

Secrist, Readings and Problems in Statistical Methods (Mac-millan).

Monday, Wednesday, and Friday at 10. Professor Caldwell.

ECONOMICS 21b. ECONOMICS OF TRANSPORTATION.

A study of the economic problems connected with modern land and water transportation, including rates, traffic, finance and public control.

Jackman, Economics of Transportation (Ryerson).

Tuesday, Thursday, and Saturday at 9. Professor Mackintosh.

ECONOMICS 24a. PUBLIC FINANCE AND TAXATION.

A study of the theory and practice of taxation and expenditure with special reference to Canadian conditions.

Assigned readings.

Monday, Wednesday, and Friday at 9. Professor

ECONOMICS 25a. THE FINANCIAL ORGANIZATION OF SOCIETY.

A general survey of the modern financial system. Money and credit, commercial banks, investment banks, trust companies, savings banks, loan and mortgage companies, co-operative credit institutions, stock exchanges and the other institutions which make up the present financial structure, will be studied with a view to ascertaining the functions which they perform, their relations to one another and to the economic system as a whole. A brief comparative study of the commercial banking systems of England, Scotland, France, Germany, United States and Canada will also be made.

Readings in Money and Banking, furnished through the Department.

Assigned Readings.

Tuesday, Thursday, and Saturday at 11. Mr. Knox.

*ECONOMICS 30b. POLITICAL THEORY SINCE 1800.

This course will deal chiefly with the development of political thought in Great Britain, but some consideration will be given to Continental writers, including Mazzini, Treitschke, Tolstoy, Scott's Men and Thought in Modern History (Macmillan) should be read as an introduction.

Mill, On Liberty; Representative Government (Everyman).

Spencer, Man Versus the State (Watts).

Hobhouse, Liberalism (Home University).

Cecil, Conservatism (Home University).

Davidson, Political Thought from Bentham to Mill (Home University).

Laski, Authority in the Modern State (Yale).

Monday, Wednesday, and Friday at 8.

ECONOMICS 36b. GOVERNMENTS OF BRITAIN AND IRELAND.

This course will consist mainly of a study of the form and working of the government of Great Britain, with some consideration of the social and industrial forces in the background. An examination will also be made of the political organization of the Irish Free State.

Bagehot, The English Constitution (Nelson).

Low, The Governance of England (Unwin).

Selected portions of Lowell, Government of England;

Anson, The Law and Custom of the Constitution.

Dicey, The Law of the Constitution.

Assigned biographical and other collateral reading.

Figgis, The Irish Constitution (Mellifont Press).

Monday, Wednesday, and Friday at 9.

ECONOMICS 38b. GOVERNMENT OF THE UNITED STATES.

A study of national, state and local government in the United States.

Tuesday, Thursday, and Saturday at 11. Mr. Knox.

*Economics 42b. Social Problems.

An introductory survey of social theory, followed by a detailed study of specific social problems. Though not prerequisite, Biology 1, and Philosophy 1 (Psychology) should, if possible, be taken before this course.

Assigned Readings.

Tuesday, Thursday, and Saturday at 8. Mr. Knox.

ECONOMICS 50a. INDUSTRIAL MANAGEMENT.

This course will include a study of the organization of the factors in industry and of the present relations and labor problems involved. Special attention will be given to factory management, but the application of principles to the facts of office management will also be dealt with. Visits to factories will be arranged and students will be expected to prepare reports on these visits.

Lansburgh, Industrial Management (Wiley).

Monday, Wednesday, and Friday at 9. Professor Caldwell.

ECONOMICS 52a. MARKETING, DOMESTIC.

A study of marketing functions, organization and policies from the standpoint of the economist and the business man. The study will be based upon specific problems derived as far as possible from Canadian experience.

Clark, Principles of Marketing (Macmillan).

Mackintosh, Agricultural Cooperation in Western Canada (Ryerson).

Tuesday, Thursday, and Saturday at 8. Professor Mackintosh.

ECONOMICS 53b. MARKETING, FOREIGN.

A course in the methods and problems of foreign trading, with special reference to export trade and Canadian conditions.

Litman, Essentials of International Trade (Wiley).

Monday, Wednesday, and Friday at 9. Professor Caldwell.

ECONOMICS 54b. BUSINESS FINANCE.

Forms of business organization, nature, advantages, disadvantages and present range; sources of funds for business enterprise; temporary financing, bank credit, trade credit; permanent financing, bonds, stocks; promotion, incorporation and capitalization of companies; underwriting and sale of securities; problems in internal financial management; bankruptcy and reorganization; questions of public policy.

Lincoln, Applied Business Finance (Shaw).

Tuesday, Thursday, and Saturday at 8. Professor Caldwell.

ECONOMICS 59b. BUSINESS POLICY.

A course in Business Policy designed to correlate the work of the various specialized courses from the point of view of the chief executive. It will be conducted in the main by special lecturers presenting and discussing problems in location, expansion, factory management, labour administration, finance, insurance, transportation and selling policy, which have arisen and been solved in connection with particular businesses. Problems will be assigned to each student for study and report.

Shaw, An Approach to Business Problems (Harvard University Press).

Monday, Wednesday, and Friday at 10. Professor Caldwell.

*ECONOMICS 60a. COMMERCIAL LAW.

This course will afford an introduction to the law governing business transactions. Special emphasis will be given to the general field of Contracts and to Bills of Exchange.

Geldart, Elements of English Law will be found a useful introduction to the subject; Falconbridge, Negotiable Instruments, covers the subject of Bills of Exchange. Emphasis will be laid upon leading cases, mainly as presented in Caporn, Cases on Contracts.

Monday, Wednesday, and Friday at 8.

ECONOMICS 61b. COMMERCIAL LAW: COMPANIES AND PARTNERSHIPS.

This course will deal chiefly with statutory law, particularly the law of business organizations as developed in the Companies and Partnerships Acts, with some consideration of bankruptcy and trustee legislation.

Monday, Wednesday, and Friday at 8. Professor Walker.

*ECONOMICS 62a. ELEMENTS OF ACCOUNTING.

An elementary study of the principles of accounting; it is the basis of courses 63 to 67. It will involve exercises and problems, and practice in keeping an actual set of books, and will lead up to the preparation of Trading and Profit and Loss Statements and Balance Sheets, from the Trial Balance of a private firm. Sprott and Short, Canadian Modern Accounting, Pt. I.

Monday, Wednesday, and Friday at 11. Professor Walker.

*ECONOMICS 63b. ELEMENTS OF ACCOUNTING.

A continuation of Economics 62a. A consideration of special features in accounts of limited companies, reserves and reserve funds, consignments, single entry, branch accounts, etc.

Normally, 62a and 63b will be considered a single course, extending throughout the whole session.

Spicer and Pegler, Bookkeeping and Accounts.

Monday, Wednesday, and Friday at 11. Professor Walker.

ECONOMICS 64a. INTERMEDIATE ACCOUNTING.

An advanced course, covering the general field of accounting, with particular attention to accounts of limited companies. This course will include a brief introduction to Cost Accounting.

Prerequisite: Economics 62a and 63b.

Spicer and Pegler, Bookkeeping and Accounts (Lynch, London).

Tuesday, Thursday, and Saturday at 10. Professor Smails.

ECONOMICS 65b. INTERMEDIATE ACCOUNTING.

This course will afford an introduction to Income Tax Law and accounting and to certain accounts of which the form or content

is regulated by Statute, such as executorship and trust accounts, the accounts of liquidators, receivers and trustees in bankruptcy, municipal accounts, the accounts of trust and loan companies, etc.

Spicer and Pegler, Bookkeeping and Accounts (Lynch, London). Dominion Income War Tax Act of 1917, and Amendments.

The Succession Duty Act (R.S.O. 1914, c. 24) and Amendments.

Dominion Bankruptcy Act and Amendments.

Tuesday, Thursday, and Saturday at 10. Professor Smails.

ECONOMICS 66a. COST ACCOUNTING.

This course presents the principles and methods of cost accounting, covering such points as cost components, basis of costs, controlling cost records, departmentalization, stock record accounting, requisitions, accounting for labour, calculating and applying burden, rates, prevailing types of cost systems, by-product costs, and installation of a cost system.

Eggleston and Robinson, Business Costs (Appleton).

Tuesday, Thursday, and Saturday at 9. Professor Smails.

ECONOMICS 67b. AUDITING.

A consideration of the functions and liabilities of auditors; private and statutory audits; and special investigations.

Spicer and Pegler, Practical Auditing (Lynch, London).

Dominion Companies Act, Office Consolidation.

Ontario Companies Act.

Ontario Partnership Act.

Tuesday, Thursday, and Saturday at 9. Professor Smails.

ECONOMICS 69. ACCOUNTING PROBLEMS.

This course is equivalent to the thesis demanded of other students and consists in the solution of accounting problems.

Professor Smails.

ECONOMICS 99. SEMINAR COURSE FOR HONOUR STUDENTS.

Honour students making Political and Economic Science their major subject should choose one of the following seminar courses; they may, by special permission of the Department, be elected by other Honour or Pass students with the necessary foundation:

1. A study of Imperial and International Problems, from the Canadian standpoint.

General readings will be assigned and in addition each member of the group will make a special study of Canada's relations with one foreign country. As an introduction, students should read: Borden, Canadian Constitutional Studies (University of Toronto Press);

Gibbons, Introduction to World Politics (Century).

Professor

2. The Business Cycle in Canada.

The relations of trade, finance, manufacturing, agriculture, employment, and social conditions to the movements of the business cycle will be examined. Each student will choose an individual topic for special investigation. By way of introduction students should read:

Clark, The Business Depression of 1920-21 (Bulletin of the Departments of History and Political and Economic Science, Queen's Quarterly, No. 40).

Business Cycles and Unemployment (McGraw-Hill).

MENTAL AND MORAL PHILOSOPHY

PROFESSOR OF PHILOSOPHY—George Humphrey, M.A., Ph.D. ASSISTANT PROFESSOR—H. Reid MacCallum, B.A.

REGULATIONS

- 1. Philosophy 1 and 2 are presupposed by the other courses.
- 2. A Minor in Philosophy consists ordinarily of courses 1, 2, 25 or 26, and one other.
- 3. A Major consists of the work required for a Minor together with one additional course.
- 4. Honour students must take courses 1 and 2, and from three to five others to be chosen after consultation with the department. If the reading course is in Philosophy, Honour students will take course 99.
 - 5. The advanced work is offered in a cycle in successive years.
- 6. In the summer of 1925 courses 1, 2 will be offered to extra-mural students. The courses open to extra-mural students in the winter of 1925-26 are marked with an asterisk.

COURSES OF INSTRUCTION

*PHILOSOPHY 1. PHILOSOPHY OF MIND.

(1) Introduction to Modern Thought.

This course is intended to point out to the general student the assumptions and presuppositions that underlie present day accounts of the real world, and to suggest possible alternative conclusions as to its general nature. To this end certain familiar hypotheses of natural science will be examined, and an attempt made to show how far reality may be supposed to conform to them and why they work as well as they do.

The main issues will be studied as far as possible in their historical setting.

Assigned readings.

Professor MacCallum.

(2) Psychology.

Pillsbury, Essentials of Psychology (Macmillan).

Professor Humphrey.

Two sections. Monday, Wednesday, and Friday at 9.

PHILOSOPHY 2. PHILOSOPHY OF CONDUCT.

(1) The Theory of Good and Evil.

An introduction to the problems of conduct. The course will deal with such questions as the following: What are we to understand by "individuality", the "self" or the "soul"? What does freedom

mean, as attributed to men's actions? What are the various standards by which right has been distinguished from wrong? What are the rival claims of pleasure, usefulness, instinct and duty to be the best standard? Does evolution mean progress? What part do religion and the community play in determining what is right or wrong?

(Text to be assigned).

Tuesday, Thursday and Saturday at 11 (first term).

Professor MacCallum.

(2) Social Psychology.

Allport, Social Psychology (Houghton Mifflin).

Tuesday, Thursday, and Saturday at 11 (second term).

Professor Humphrey.

N.B.—The extra-mural course in Philosophy 1 and 2 for 1925-6 will be that outlined in the Calendar for 1924-5.

PHILOSOPHY 25. PSYCHOLOGY OF THE CHILD.

This course aims to give a psychological insight into the problems of the development and education of the child and young person. The theory and application of mental testing are discussed, and it is hoped to arrange practical work in testing for the members of the class.

Woodrow, Brightness and Dullness in Children (Lippincott). Book, Intelligence of High School Seniors (Macmillan). Judd, Psychology of High School Subjects (Ginn).

Monday, Wednesday, and Friday at 11. Professor Humphrey.

PHILOSOPHY 26. THE RISE OF MODERN PHILOSOPHY.

A critical study of Cartesian Rationalism and English Empiricism in the 17th and 18th centuries.

N. K. Smith, Studies in the Cartesian Philosophy (Macmillan & Co.).

Assigned readings from:

 ${\bf Descartes,}\ Meditations.$

Spinoza, Ethics.

Leibniz, The Monadology.

Locke, Essay on Human Understanding.

Berkeley, Principles of Human Knowledge.

Hume, Enquiry Concerning Human Understanding.

Monday, Wednesday, and Friday at 8. Professor MacCallum.

PHILOSOPHY 27a. KANT.

In this course a summary of Kant's relations to his predecessors, and of his own position in the three "Critiques" will be given.

The course will involve a detailed study of the text of the "Critique of Pure Reason," up to, but not including, the "Transcendental Dialectic."

J. Watson, Selections from Kant (Maclehose).

References:

- J. Watson, Kant Explained.
- N. K. Smith, Commentary to Kant's Critique of Pure Reason.
- F. Paulsen, Kant.
- H. Prichard, Kant's Theory of Knowledge.

Professor MacCallum.

Not offered in session 1925-26.

*PHILOSOPHY 45. PSYCHOLOGY OF THE INSTINCTS AND EMOTIONS.

This course is arranged for extra-mural students.

Professor Humphrey.

PHILOSOPHY 46b.

This course is intended as an introduction to contemporary logical theory; it will include a criticism of syllogistic logic, an account of the general nature of judgment, a special examination of the Categorical, Hypothetical, Negative and Disjunctive forms of judgment, an account of the nature and validity of inference, and of scientific methods of proof.

B. Bosanquet, *Implication and Linear Inference* (Macmillan). Assigned readings from the *Logics* of F. H. Bradley, B. Croce, F. Schiller, and Joseph.

Monday, Wednesday, and Friday at 11 (second term).

Professor MacCallum.

*PHILOSOPHY 47. THEORY OF KNOWLEDGE.

This course will deal with the nature and limits of knowledge under such heads as the following: subjectivism, its advantages and defects; the alternation between realism and idealism in theories of perception; the nature and function of the sensa; space and time as intuitions; the categories of substance and cause; the relations between sensa, intuitions and categories.

N. Kemp Smith, Prolegomena to an Idealist Theory of Knowledge (Macmillan).

References:

- C. D. Broad, Perception, Physics and Reality.
- H. Bergson, Matter and Memory.
- R. Hoernlé, Studies in Contemporary Metaphysics.

Professor MacCallum.

Not offered in session 1925-26.

PHILOSOPHY 48a. ABNORMAL PSYCHOLOGY.

A study of the more modern theories of abnormal mental action, with their relation to normal psychology.

Assigned readings.

Tuesday, Thursday, and Saturday at 11 (first term).

Professor Humphrey.

PHILOSOPHY 49a. HISTORY OF PSYCHOLOGY.

Discusses the solutions that representative psychological thinkers from Greek times to the present day have given of certain persistent problems, such as the relation of the mind to the body and the unity of the mind.

The basis of this course is Brett, *History of Psychology*. Not offered in session 1925-26.

PHILOSOPHY 79. THE PHILOSOPHY OF SCIENCE.

A study of the philosophic import of certain recent innovations in the natural and social sciences. There will be discussed, for example, on the side of physical science the theory of relativity, and in the social sciences the theory of instinct and the statistical method.

The historical background of the course is given in

Merz, History of European Thought in the Nineteenth Century.

Readings will be assigned in Whitehead, Russell, Broad, MacDougall and others.

Professor Humphrey.

Not offered in session 1925-26.

PHILOSOPHY 80. PROBLEMS IN PSYCHOLOGY.

This course involves practical work on the part of the student. Some problem of child psychology will be taken up. Two hours credit.

Hours to be arranged.

Professor Humphrey.

PHILOSOPHY 99. READING AND SEMINAR COURSE.

The following subjects are suggested: Physiological Psychology; Applied Psychology; History of Philosophy; Bergson.

Attention is drawn to the course in the History of Thought offered in co-operation with the Department of History.

MATHEMATICS

PROFESSOR-J. Matheson, M.A.

PROFESSOR-C. F. Gummer, M.A., Ph.D.

ASSOCIATE PROFESSOR-N. Miller, M.A., Ph.D.

ASSISTANT PROFESSOR-K. P. Johnston, B.A., B.Sc.

ASSISTANT-Etta A. Newlands, M.A.

TUTORS-H. M. Cave, J. T. Thwaites.

REGULATIONS

- 1. Students electing Mathematics as a Minor, Major, or Honour subject will consult the Department about the courses to be taken.
- 2. Courses 10a, 11b, 12a, 13a, and 14b may be taken by either Pass or Honour students. Courses numbered 15 or over are intended for Honour students only.
- 3. Pass students selecting Mathematics as their Major will take 1 and 2, and the equivalent of three whole courses from 7b, 10a, 11b, 12a, 13a, 14b, and Astronomy 1.

Pass students selecting Mathematics as their Minor will take 1 and 2, and the equivalent of two whole courses from 7b, 10a, 11b, 12a, 13a, 14b, and Astronomy 1.

- 4. Courses numbered 10 to 18 are intended for undergraduates only, those numbered 20 to 23 for undergraduates or graduates, and those from 30 to 34 for graduates only.
- 5. All Honour students making Mathematics their principal subject are advised to take at least *eight* full courses in Mathematics, namely, 1(h), 2, 10a, 11b, 12a, 13a, 14b, 15a, 16b, 17b, 18a, 99, and one of 20b to 23. This is particularly important for students who may later proceed to the degree of M.A.
- 6. Extra-mural instruction is limited to the following courses, which are marked with an asterisk:

Winter session, 1925-26: 1, 2, 7b, 10a, 11b. Summer session, 1925: 1, 2, 7b, 10a, 11b.

COURSES OF INSTRUCTION

*MATHEMATICS 1. TRIGONOMETRY, ANALYTIC GEOMETRY, AND ALGEBRA. Monday, Wednesday, and Friday at 8. Professor Gummer, Professor Miller, and Mrs. Newlands.

*MATHEMATICS 1 (h).

This course is to be taken instead of course 1 by students intending to proceed to higher work in Mathematics.

> Monday, Wednesday, and Friday at 8. Professor Matheson.

*MATHEMATICS 2. ELEMENTARY CALCULUS AND ANALYTIC GEOMETRY.

Granville, Differential and Integral Calculus.

Tanner and Allen, Brief Course in Analytic Geometry.

Prerequisite, 1.

Tuesday, Thursday, and Saturday at 8 Professor Matheson and Mrs. Newlands.

*MATHEMATICS 7b. MATHEMATICS OF INVESTMENT.

This class is intended primarily for students in Commerce, but is open to other students.

Prerequisite, 1.

Tuesday, Thursday, and Saturday at 11 Professor Matheson.

ASTRONOMY 1. A COURSE IN DESCRIPTIVE ASTRONOMY.

Moulton, Introduction to Astronomy.

Prerequisite, 1.

Tuesday, Thursday, and Saturday at 11. Professor Johnston.

*MATHEMATICS 10a. ALGEBRA.

Prerequisite, 1 (h).

Monday, Wednesday, and Friday at 11. Mrs. Newlands.

*MATHEMATICS 11b. CALCULUS.

Granville, Differential and Integral Calculus.

(Open to students who have taken the first half of Mathematics 2.) Monday, Wednesday, and Friday at 11.

Professor Matheson.

MATHEMATICS 12a. DETERMINANTS AND THEORY OF EQUATIONS.

Dickson, First Course in the Theory of Equations.

Prerequisites, 2, 10a.

Monday, Wednesday, and Friday at 8. Professor Johnston.

MATHEMATICS 13a. SYNTHETIC GEOMETRY.

A course in Modern Synthetic Geometry, plane and solid. Prerequisite, 2.

Monday, Wednesday, and Friday at 9.
Professor Matheson.

MATHEMATICS 14b. SPHERICAL TRIGONOMETRY AND ASTRONOMY.

Prerequisite, 2.

Moulton, Introduction to Astronomy.

Kingston, Star Guide.

Reference:

Dupuis and Matheson, Spherical Trigonometry and Astronomy. In connection with this course considerable work will be done in the observatory.

Monday, Wednesday, and Friday at 8.
Professor Johnston.

MATHEMATICS 15a. ANALYTIC SOLID GEOMETRY.

Snyder and Sisam, Analytic Geometry of Space.

Open to students who have taken 12a, or are taking it.

Tuesday, Thursday, and Saturday at 8.

Professor Gummer.

MATHEMATICS 16b. DIFFERENTIAL EQUATIONS.

Murray, Differential Equations.

Prerequisites, 2, 10a, and 11b.

Tuesday, Thursday, and Saturday at 8.
Professor Miller.

MATHEMATICS 17b. ADVANCED ANALYTIC GEOMETRY.

Sommerville, Analytical Conics.

Salmon, Conic Sections.

Smith, Conic Sections.

Prerequisite, 12a,

Monday, Wednesday, and Friday at 9.
Professor Miller.

MATHEMATICS 18a. ADVANCED CALCULUS.

Goursat-Hedrick, Mathematical Analysis, Vol. I.

Byerly, Integral Calculus.

Prerequisites, 11b, 12a, and three of 13b, 14b, 15a, 16b, and 17b.

Monday, Wednesday, and Friday at 9.

Professor Miller.

MATHEMATICS 20b. FINITE DIFFERENCES AND PROBABILITY.

Prerequisites, 12a and three of 13a, 14b, 15a, 16b, and 17b.

Tuesday, Thursday, and Saturday at 9.

Professor Gummer.

- MATHEMATICS 21 a or b. THEORY OF NUMBERS.

 Prerequisites, 12a and three of 13a, 14b, 15a, 16b, and 17b.
- MATHEMATICS 22 a or b. QUATERNIONS AND VECTOR ANALYSIS.

 Prerequisites, 12a and three of 13a, 14b, 15a, 16b, and 17b.
- MATHEMATICS 23 a or b. Theory of Infinite Series.

 Prerequisites, same as for course 22.
- MATHEMATICS 30 a or b. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.

 Townsend, Functions of a Complex Variable.

 Prerequisites, 18, and one of 20b, 21, 22, 23.
- MATHEMATICS 31 a or b. THEORY OF FUNCTIONS OF A REAL VARIABLE. Goursat-Hedrick, Mathematical Analysis, Vol. I. Pierpont, Theory of Functions of Real Variables, Vol. I. Prerequisites, same as for 30.
- MATHEMATICS 32 a or b. MODERN HIGHER ALGEBRA.
 Bôcher, Introduction to Higher Algebra.
 Prerequisites, same as for 30.
- MATHEMATICS 33 a or b. DIFFERENTIAL GEOMETRY. Eisenhart, Differential Geometry.

 Prerequisites, same as for 30.
- MATHEMATICS 34 a or b. PROJECTIVE GEOMETRY.

 Veblen and Young, Projective Geometry, Vol. I.

 Prerequisites, same as for 30.
- MATHEMATICS 99. HONOUR SEMINAR AND READING COURSE.

PHYSICS

PROFESSOR—A. L. Clark, B.Sc., Ph.D., F.R.S.C.

RESEARCH PROFESSOR-J. A. Gray, B.Sc., D.Sc., O.B.E., F.R.S.C.

PROFESSOR-W. C. Baker, M.A.

ASSOCIATE PROFESSOR-J. K. Robertson, M.A.

ASSOCIATE PROFESSOR-E. Flammer, B.Sc., Ph.D.

LECTURER-W. V. Ball, B.A.Sc.

ASSISTANT-D. O. Robinson, B.Sc.

REGULATIONS

1. Students selecting Physics as a Minor subject on a Pass course usually take Physics 1, 2, 11a, 13b, 14b and 15a.

Students selecting Physics as a Major subject on a Pass course usually take 1, 2, 11a, 13b, 14b, 15a, and one other course.

Courses 10 and 12 are also open as Pass courses to students with adequate mathematical preparation.

- 2. Students making Physics one of their two Honour subjects take in addition to Physics 1 and 2, from three to five courses, or the equivalent in half-courses.
- 3. When Mathematics is the related subject, the courses will be chosen, after consultation with the Head of the Physics Department, from 10, 12, 16a, 17b, 20b, 21a and 99. Courses 10 and 12, however, are prerequisite to any of the others.
- 4. When Chemistry (or any other approved subject) is the related subject, the Honour courses may be chosen, after consultation with the Head of the Department, from 10, 12, 11a, 12b, 14b, 15 (a or b), 16a, 17b, 20b, 21a and 99.
- 5. When Chemistry is the subject chiefly emphasized Mathematics 16b may be substituted for one of the half-courses in Physics.
- 6. Students taking the special course in Science for Teachers will choose advanced courses from 10, 12, and any two of 11a, 13b, 14b, and 15a, the two chosen to be decided after consultation with the Head of the Department. As a rule, courses 11a and 15a are recommended.
- 7. Courses A 1 and A 2 only are open to extra-mural students, but the experimental part of the course must be postponed until it can be done intra-murally. The examination on the prescribed work may be

taken in any examination period after the required standing on the exercises has been attained, but the experimental work must be done satisfactorily before credit for any course can be given.

8. The principal Physical Journals and books relating to the lectures and the laboratory work are kept in the Library of the Physics Department and in the University Library, where they may be freely consulted by the students. Certain of these may be borrowed for limited periods by making application to the librarians in charge.

COURSES OF INSTRUCTION

*PHYSICS. A. 1. MECHANICS, PROPERTIES OF MATTER, HEAT, WAVE-MOTION, SOUND, LIGHT, ELECTRICITY, AND MAGNETISM.

The work of this course is elementary, forming the introduction to the subject. Its purpose is to lay a thorough foundation for subsequent work in theoretical, experimental, and technical Physics, as well as to give a fairly complete elementary knowledge of the subject to those who do not intend to pursue it further. Only an elementary knowledge of Mathematics is required.

Lectures: Three hours, Tuesday, Thursday, and Saturday at 11.

Laboratory: Two hours, Tuesday 1-3 or Tuesday 3-5 or Wednesday

3-5.

Professor Clark and Mr. Ball.

*Physics, A. 2. Mechanics and Light.

Students who enter this class with Honour Matriculation standing, and who have not taken Physics A. 1 may be required to do the laboratory work and to pass the examination of Physics A. 1. (See section 8 under ADMISSION.)

MECHANICS. The work in this section is an extension of that done in Physics A. 1, treating the less simple parts of the subject and dealing with Dynamics of Rotation and Simple Harmonic Motion.

LIGHT. The work in this section consists of a detailed discussion of vibratory and wave motion; a treatment of Reflection and Refraction from the standpoint of wave theory; and a study of Dispersion, Interference, Diffraction, Spectroscopy, Polarization, and Double Refraction.

Prerequisite: Physics A. 1 or Honour Matriculation.

Lectures: Three hours—Tuesday, Thursday and Saturday at 9. Laboratory: Two hours—Wednesday, 2-4, or Thursday 3-5.

Professors W. C. Baker and Robertson.

PHYSICS, A. 10. MECHANICS AND HEAT.

MECHANICS. A series of lectures in which the elements of statics and dynamics of a particle are discussed.

Physics 129

HEAT. A course on the fundamental laws of Thermodynamics and their application to the Thermodynamical Scale of Temperature, to the treatment of Saturated Vapours, and to Reversible Processes in general.

Prerequisite: Mathematics 2 and a minimum of fifty-five per cent. on Physics A 2.

Lectures: Two hours—Tuesday and Thursday at 10. Laboratory: Two hours—Tuesday, 3-5.

Professors Clark, W. C. Baker, and Flammer.

PHYSICS, A. 11a. MECHANICS AND PROPERTIES OF MATTER.

In this course the fundamental concepts of Physics are emphasized by the detailed discussion of such topics as Elasticity, Damped Harmonic Motion, Gyroscopic Phenomena, Surface Tension, Flow of Fluids, etc.

Prerequisite: Mathematics 2 and 55 per cent. standing on Physics, A. 2.

Lectures: Two hours-Monday and Wednesday at 8.

Laboratory: Two hours—Tuesday, 3-5. Professor W. C. Baker.

PHYSICS, A. 12. ELECTRICITY AND MAGNETISM.

This course is divided into two portions. In the first half, lectures are given on the elements of the Mathematical Theory of Electricity and Magnetism. In the second half an attempt is made to acquaint the students with some of the modern developments in Physics. Lectures are given on such topics as, The Structure of the Atom, Conduction of Electricity through Gases, Radioactivity.

Prerequisite: Mathematics 2 and 55 per cent. standing on Physics, A. 2.

Lectures: Two hours—Wednesday and Friday at 10. Laboratory: Two hours—Thursday, 3-5.

Professors W. C. Baker and Gray.

PHYSICS, A. 13b. ELECTRICITY AND MAGNETISM.

In this course an attempt is made to acquaint the student with some of the modern developments in Physics. Lectures are given on such topics as, The Structure of the Atom, Conduction of Electricity through Gases, Radioactivity.

Prerequisite: Mathematics 2 and 55 per cent. standing on Physics, A. 2.

Lectures: Two hours—Wednesday and Friday at 10. Laboratory: Two hours—Thursday, 3-5.

Professor Gray.

PHYSICS, A. 14b. HEAT.

A course on the fundamental laws of Thermodynamics and their application to the Thermodynamical Scale of Temperature, to the treatment of Saturated Vapours and to Reversible Processes.

Prerequisite: Mathematics 2 and 55 per cent. standing on Physics, A. 2.

Lectures: Two hours—Tuesday and Thursday at 10. Laboratory: Two hours—Tuesday, 3-5.

Professor Clark.

PHYSICS, A. 15a or b. LABORATORY.

A laboratory course designed for students on a Pass course taking Physics as a Major or Minor. In certain cases a student is allowed to spread his work over both terms and to write the examination in April.

Laboratory: Six hours.

Students desiring to attend lectures in courses beyond 15a are advised to acquire a reading knowledge of French and German.

PHYSICS, A. 16a. DYNAMICS OF RIGID AND ELASTIC BODIES.

A discussion of Motions of a Rigid Body, Ellipsoids of Inertia, Motion with Fixed Axis and Fixed Point, Euler's Equations, and applications to Motion of the Symmetrical Top. Stress and Strain Relations in Elastic Bodies, Elastic Constants.

Prerequisite: Physics A. 10 and A. 12.

Lectures: Three hours—Monday, Wednesday, and Friday at 11.

Professor Flammer.

PHYSICS, A. 17b. PHYSICAL OPTICS.

A course of lectures on the theory and phenomena of Physical Optics, including a discussion of Wave Motion, Diffraction, Interference Spectroscopes, Polarization and Double Refraction.

Prerequisite: Physics A. 10 and A. 12.

Lectures: Two hours—Tuesday and Thursday at 11. Laboratory: Two hours—Monday 2-4.

Professor Robertson.

PHYSICS, A. 20b. ELECTRICITY AND MAGNETISM.

Electrodynamics, Conduction through Gases.

Prerequisite: Physics A. 10 and A. 12.

Lectures: Two hours—Monday and Wednesday at 11. Laboratory: Wednesday 2-4.

Professor Flammer.

Physics, A. 21a. Kinetic Theory of Gases.

Prerequisite: Physics A. 10 and A. 12.

Lectures: Two hours—Tuesday and Thursday at 11. Laboratory: Wednesday 2-4.

Professor Gray.

Physics, A. 22 a or b. Laboratory. Six hours.

PHYSICS, A. 27 a or b. MECHANICS.

The development and application of such important principles as the Principle of Virtual Work, Principle of d'Alembert, Hamilton's Physics 131

Principle of the Least Action, Lagrange's Equations, and a brief treatment of Non-Newtonian Mechanics.

Physics, A. 28 a or b

Physics, A. 29 a or b. Optics.

The Electro-magnetic Theory of Light with applications to the Theory of Dispersion and Absorption; Magneto- and Electro-optics

PHYSICS, A. 30 a or b. ELECTRICITY AND MAGNETISM.

PHYSICS, A. 31 a or b. RADIATION AND QUANTUM HYPOTHESIS.

Physics, A. 32 a or b. Partial Differential Equations of Physics.

PHYSICS, A. 33 a or b. ELECTRICAL OSCILLATIONS.

PHYSICS, A. 34 a or b. HYDRODYNAMICS AND AERODYNAMICS.

PHYSICS, A. 35. LABORATORY.

Usually a small piece of directed research under the immediate supervision of a member of the staff. The aim is to familiarize the student with the conditions, methods, and spirit of physical research. If the student proves himself capable, he may be given a problem for independent investigation.

PHYSICS, A. 99. HONOUR SEMINAR AND READING COURSE.

Each student will be assigned work after consultation with the Head of the Physics Department.

The work in connection with this course will consist not only of independent reading but also of experimental work relating to the special field in which the student is reading.

CHEMISTRY

PROFESSOR OF CHEMISTRY—Arthur C. Neish, M.A., Ph.D., F.C.I.C.

Professor-L. F. Goodwin, A.C.G.I., Ph.D., F.I.C.

Associate Professor-J. A. McRae, M.A., Ph.D., F.I.C.

LECTURERS-A. F. G. Cadenhead, B.A., F.C.I.C.

Roy L. Dorrance, M.A.

Grenville B. Frost, B.A., Ph.D.

MILTON HERSEY FELLOW-R. W. Beattie, B.Sc.

DEMONSTRATOR-C. Y. Hopkins, B.A.

REGULATIONS

Sequence: Chemistry 1 and 2 are prerequisite to all other courses in Chemistry.

Pass Minor: Chemistry 1, 2, 21, 31 or 71.

Pass Major: Chemistry 1, 2, 21, 31, 71.

Honours, Five courses: Chemistry 1, 2, 21, 31, 41.

Honours, Six courses: Chemistry 1, 2, 21, 31, 41, 61 or 71.

Honours, Seven courses, with Physics Minor: Chemistry 1, 2, 21, 31, 41, 99, and one other course.

Honours, Seven courses, with Biology Minor: Chemistry 1, 2, 21, 31, 41, 99, and one other course.

Honours, Seven courses, with Minor consisting of Mineralogy 1(55%), 11, Geology 1(55%), 10, 15, Chemistry 1, 2, 21, 31, 41, 99, and one other course.

NOTE.—Students taking Honours in Chemistry must consult the Head of the Department after they have passed Chemistry 2.

Courses open to Extra-mural students in Summer School of 1925, Chemistry 1, 2, 31a. The laboratory work in extra-mural Chemistry must be done at the Summer School and must be completed before candidates are admitted to examinations.

Candidates for the degree of M.A. who include Chemistry as one of their two special subjects must have their choice of courses approved by the Department.

	First	Second or Advanced	Research Training
	Courses	Courses	Courses
Inorganic Chemistry	1	101, 106b	201
Qualitative Analysis	2	111hf.	
Organic Chemistry	21	121, 123hf.	221
Quantitative Analysis	31	133hf.	231
Physical Chemistry	41, 45	141b	241
Physiological Chemistry	61		
Industrial Chemistry	71, 75hf.	171a	271
Reading Course		99	

COURSES OF INSTRUCTION

Inorganic Chemistry

CHEMISTRY 1. GENERAL INORGANIC CHEMISTRY.

This course besides dealing with the history, methods of preparation, properties and industrial application of the most important non-metals and metals and their compounds, emphasizes the fundamental theories, laws and principles of Chemistry. Elementary analytical chemistry is introduced and a few simple unknowns are given.

Prerequisite—Matriculation Chemistry and Physics or equivalent.

Texts-Kendall, Smith's College Chemistry.

Laboratory Outline for College Chemistry.

Lectures—Monday, Wednesday, and Friday at 9 in room 310. Laboratory—Thursday, 1-3, in rooms 305-308.

Professor Neish and Assistants.

CHEMISTRY 101. ADVANCED INORGANIC CHEMISTRY.

The work of this course, both in the lecture room and in the laboratory involves the critical study of several types of inorganic reactions and equilibria, together with practice in the application of physicochemical principles to these. During the second term considerable time is also devoted to the discussion of modern theories of valence, atomic and molecular structure, and their application to such topics as chemical reactivity, activation, and catalysis.

Prerequisite—Chemistry 1, 2, 21, 31, 41.

Books of Reference:

Friend, A Textbook of Inorganic Chemistry.

Lewis, Valance and the Structure of Atoms and Molecules.

Schwartz-Bass—The Chemistry of Inorganic Complex Compounds.

Crowther, Ions, Electrons and Ionizing Radiations.

Taylor, A Treatise on Physical Chemistry.

Lectures—Tuesday and Thursday at 10 in room 105. Laboratory—Friday, 1-4, room 207,

Dr. Frost.

CHEMISTRY 106b. COLLOID CHEMISTRY.

An introductory course of three hours per week for the second term. The lectures will deal with the general properties of colloids, surface phenomena, adsorption, and special stress will be laid upon the practical applications of Colloid Chemistry. The importance of the subject in the fields of both inorganic and organic chemistry will be demonstrated by laboratory experiments. These experiments will consist of the preparation of typical colloids, the various methods of identification, eletrical properties, "gold number", swelling and hydration of gelatins, etc.

Text—Hatschek, Introduction to Physics and Chemistry of Colloids—new edition.

Reference Texts- Alexander, Colloid Chemistry.

Bancroft, Applied Colloid Chemistry.
Bechold, Colloids in Biology and Medicine.
Taylor, The Chemistry of Colloids.
Lecture and Laboratory—Friday, 1-4, rooms 105-101.

Mr. Cadenhead.

CHEMISTRY 201. INORGANIC CHEMISTRY—Research Training.

For graduate students electing thesis work in Inorganic Chemistry.

Professor Neish, Mr. Cadenhead, and Dr. Frost

Qualitative Analysis

CHEMISTRY 2. QUALITATIVE ANALYSIS.

The lectures deal with the chemistry of the analytical reactions. The development and application of the laws of equilibrium and solutions are emphasized, and special attention is given to the application of these laws in laboratory practice. The course includes the systematic analysis of the usual basic and acid radicals.

Prerequisite—Chemistry 1.

Texts—Steglitz, Qualitative Chemical Analysis, Vol. I.

A. A. Noyes, Qualitative Chemical Analysis, 1922 edition.

Reference Texts-Treadwell (Hall), Vol. I.

Lectures—Tuesday and Thursday at 11 in room 310, Laboratory—Wednesday, 1-4, in rooms 107, 109.

Mr. Cadenhead.

CHEMISTRY 111 hf. ADVANCED QUALITATIVE ANALYSIS; half-course.

A course of three hours a week, consisting essentially of laboratory work, with an occasional lecture. The work will be a continuation of the work in Chemistry 2, together with the qualitative analysis of rarer earths, metals and rare acid radicals. A student may elect this course and Chemistry 2 at the same time making the combined courses equal to the full course in Qualitative Analysis given the chemists and chemical engineers, Chemistry 15.

Prerequisite—Chemistry 1 (and Chemistry 2 if taken separately).

Texts—Same as Chemistry 2, with supplementary reading.

Laboratory—Thursday, 1-4, in rooms 107, 109.
Mr. Cadenhead.

Organic Chemistry

CHEMISTRY 21. ORGANIC CHEMISTRY.

An elementary course in general organic chemistry. The properties of some of the more important compounds are studied in the laboratory and a number of them prepared.

Lectures—Wednesday and Friday at 11 in room 105. Laboratory—Wednesday, 1-4, in room 213.

Prerequisite—Chemistry 1, 2.

Texts-Perkin and Kipping, Organic Chemistry.

Fisher, Laboratory Manual of Organic Chemistry.

Professor McRae

CHEMISTRY 121. ADVANCED ORGANIC CHEMISTRY.

Advanced systematic organic chemistry, including lectures on special topics such as terpenes, alkaloids, stereoisomerism and carbohydrates. The laboratory work consists of the preparation of a number of substances to illustrate the general laboratory methods of organic chemistry. Practice in quantitative organic analysis is also given.

Prerequisite—Chemistry 1, 2, 21, 31, 41; or Chemistry 121 and 41 may be taken in the same year.

Texts—Bernthsen-Sudborough, Organic Chemistry.
Cohen, Practical Organic Chemistry.

Books of Reference-

Cohen, Advanced Organic Chemistry. Henrich-Johnson, Theories of Organic Chemistry.

Lectures—Tuesday and Thursday at 11, in room 105.

Laboratory-Wednesday 1-4, or Saturday 9-12, in room 213.

Professor McRae.

CHEMISTRY 123 hf. ADVANCED ORGANIC CHEMISTRY-half-course.

A course of three laboratory hours a week. This course will be a continuation of the laboratory work done in Chemistry 121. A student may elect this course and 121 at the same tmie, making the combined courses equal to Advanced Organic Chemistry 121 given to students in course B in Applied Science in their fourth year.

Professor McRae.

CHEMISTRY 221. ORGANIC CHEMISTRY—Research Training.

For graduate students electing thesis work in Organic Chemistry.

Professor McRae.

Quantitative Analysis

CHEMISTRY 31 a and b. CHEMISTRY 31. QUANTITATIVE ANALYSIS.

In addition to the use and care of an analytical balance typical determinations are made by both the gravimetric and volumetric methods. These include the determination of chlorine, sulphur, phosphorus, calcium, silica, the complete analysis of brass, alkalimetry and acidimetry, a few common ores, bleaching powder.

Text—Talbot, Quantitative Chemical Analysis.

Note.—For intra-mural students this is a whole course. For extra-mural students at Summer School it is divided into half courses, offered in different years.

Lectures—Thursday at 1 in room 310. Laboratory—Friday 1-5 in rooms 207, 219.

Dr. Frost.

CHEMISTRY 133 hf. ADVANCED QUANTITATIVE ANALYSIS—half-course.

A course of three hours' laboratory work a week. This course will be a continuation of the work done in Chemistry 31. A student may elect this course and Chemistry 31 at the same time, making the combined courses equal to the full course in Quantitative Analysis given to students in course B in Applied Science in their third year.

Laboratory-Friday 1-4, or Thursday 1-4, in room 207.

CHEMISTRY 231. QUANTITATIVE ANALYSIS—Research Training.
For graduate students electing thesis work in Quantitative Analysis.

Dr. Frost.

Physical Chemistry

CHEMISTRY 41. PHYSICAL CHEMISTRY.

The principles of Physical Chemistry, and their application to the study of chemical reactions and equilibria. Special attention is given to problems of industrial importance. The laboratory work

is designed to acquaint the student with the most important physical chemical measurements and to train him in habits of accuracy, despatch, and in the planning of methods for research.

Prerequisite—Chemistry 1, 2, 21, 31, or 31 and 41 in the same year.

Texts-Walker Elements of Physical Chemistry.

Lincoln, Physical Chemistry.

Findlay, Practical Physical Chemistry.

Lectures—Tuesday and Thursday at 9, in room 105, Gordon Hall.

Laboratory—Tuesday, 1-4, in 115, 116, Gordon Hall.

Professor Goodwin.

CHEMISTRY 45. PHYSICAL CHEMISTRY, ELECTRO-CHEMISTRY.

The work of this course deals with the conduction of the electric current through solutions, considering such quantities as transport numbers, mobility of ions, specific and equivalent conductivity: the electromotive force of concentration cells, with and without diffusion, developed according to the Nernst Theory; dry cells and storage batteries; some industrial applications. The laboratory work consists in determination of the quantities discussed in the lectures and the production of some compounds such as ammonium persulphate and white lead, electrolytically.

Prerequisite—Chemistry 1, 2, 21, 31, 41.

Texts-Creighton and Fink, Electrochemistry, Vol. I, Principles.

Findlay, Practical Physical Chemistry.

Lectures—Monday at 10, in room 105, and Saturday at 8, in room 310. Laboratory—Thursday 1-4, in room 115.

Mr. Dorrance.

CHEMISTRY 141b. ADVANCED PHYSICAL CHEMISTRY.

This course is designed to give the student an intimate working knowldege of the fundamental principles of Physical Chemistry, as well as a measure of command in the use of these principles in the solution of chemical problems. Numerous exercises and computations are assigned, as far as possible of the type likely to be met in subsequent professional work. In the laboratory, practice is obtained in the employment of the theorems derived in the lectures in the planning of experimental procedures and methods of attack.

Prerequisite—Chemistry 1, 2, 21, 31, 41, and 101a.

Books of Reference:

Taylor, A Treatise on Physical Chemistry.

Lewis and Randall, Thermodynamics, and the Free Energy of Chemical Substances.

Nøyes and Sherrill, Chemical Principles.

Lectures—Monday and Friday at 11 in room 201, Gordon Hall. Laboratory—Wednesday 1-4. Dr. Frost.

CHEMISTRY 241. PHYSICAL CHEMISTRY—Research Training.

For graduate students electing thesis work in Physical Chemistry.

Professor Goodwin, Mr. Dorrance and Dr. Frost.

Physiological Chemistry

CHEMISTRY 61. PHYSIOLOGICAL CHEMISTRY.

The course includes a detailed study of the properties of the carbohydrates, lipoids and proteins and of the chemical processes involved in respiration, secretion, digestion, absorption, metabolism and excretion and the chemistry of the tissues. The composition of foods and the elements of the science of nutrition are also discussed.

Texts-Mathews, Physiological Chemistry.

Hawk, Practical Physiological Chemistry.

Lectures—Monday and Friday at 11. Laboratory—Section A, Monday, 1-4. Section B, Thursday, 1-4

Industrial Chemistry

CHEMISTRY 71. INDUSTRIAL CHEMISTRY—Lectures and Laboratory.

In the lectures the following topics, illustrated by specimens, lantern slides, motion pictures, and visits to plants will be discussed: Industrial applications of air and water, natural gases, petroleum products, producer gas, water gas, coal gas, by-product coke, sulphur, sulphuric acid, sulphite, pulp and paper, hydrochloric acid, nitric acid and ammonia, nitrates natural and synthetic, soda, fertilizers, mortars and cements.

In the laboratory typical industrial processes such as crystallization, precipitation, filtration, distillation and rectification, incomplete reactions, gas analysis and industrial flow sheets will be carried out and interpreted.

Prerequisite—Chemistry 1, 2, 21, 31, and Physics 1.

Texts—Rogers, Manual of Industrial Chemistry, or Thorp, Outlines of Industrial Chemistry.

Atack, Chemist's Year Book.

Lectures—Tuesday and Thursday at 10, in room 310. Laboratory—Monday 1-4, in room 112.

Professor Neish.

CHEMISTRY 75 hf. INDUSTRIAL CHEMISTRY, lectures only; half-course.

This course consists of the same lectures as Chemistry 71, and is intended for students in Arts who may or may not wish to

take Qualitative Analysis, but who are anxious to know something of the application of Chemistry.

Prerequisite—Chemistry 1.

Text—Rogers, Manual of Industrial Chemistry, or Thorp, Outlines of Industrial Chemistry.

Lectures—Tuesday and Thursday at 10, in room 310.

Professor Neish.

CHEMISTRY 171a. ADVANCED INDUSTRIAL CHEMISTRY.

This course deals with the following subjects: Distillation and dephlegmation, wood distillation, alcohol, acetic acid, acetone. Dissolution, decantation, filtration, centrifugals. Manufacture of organic nitro compounds and explosives, cyanamide, ammonia. Equilibrium and optimum conditions for contact sulphuric acid and synthetic ammonia processes, absorption of gases by liquids and solids, absorption and reaction towers, electric furnace products and synthetic acetone, potash manufacture and recovery, recovery of waste acids, ceramics, films, sulphite, sulphate and mechanical wood pulp, paper.

Prerequisite—Chemistry 1, 2, 21, 31, 41, 71.

Texts-Partington, The Alkali Industry; and

References to books in Library.

Lectures—Monday and Friday at 9, in room 105, Laboratory—Monday 1-4, in room 112.

Professor Goodwin.

CHEMISTRY 271. INDUSTRIAL CHEMISTRY RESEARCH.

For graduate students electing thesis work in Industrial Chemistry.

Professors Neish and Goodwin.

CHEMISTRY 99. GENERAL CHEMISTRY. READING AND SEMINAR COURSE FOR HONOUR STUDENTS, whose main work is in Chemistry.

Professor Neish

BIOLOGY

PROFESSOR—W. T. MacClement, M.A., D.Sc. ASSISTANT PROFESSOR—A. B. Klugh, M.A. ASSISTANT PROFESSOR—R. O. Earl, B.A., M.Sc. LECTURER—C. A. E. Hensley, B.A. TUTOR—H. D. McEwen.

REGULATIONS

1. The work of the department of Biology is the study of plants and animals in their development, forms, life processes and life relations.

All students beginning the study of Biology will take Biology 1. Students intending to go further with the subject will take also Biology 2, and then select courses in Botany, Zoology or Bacteriology. The student may confine his attention to one of these branches, or take courses from any or all of them. Almost any combination of the courses may be made, providing that attention has been given to the prerequisites. The advice of an instructor should be sought in the selection of courses.

2. Students taking Biology as a minor subject in a Pass Course will take Biology 1 and 2, and two courses or their equivalents in half courses from Biology 10a, 10b, 11, 12a, 13b, 21, 22a, 23b, 24a, 25b.

Those taking Biology as a major subject in a Pass Course will take Biology 1 and 2, with three courses or their equivalents in half courses from Biology 10a, 10b, 11, 12a, 13b, 14a, 15a, 16b, 18, 20, 21, 22a, 23b, 24a, 25b, 33, Bacteriology 10a, 12b, 13a, and 20.

3. A student taking Honours in Biology will take Biology 1 and 2, and from three to five other courses chosen from 10a, 10b, 11, 12a, 13b, 14a, 15a, 16b, 18, 19, 20, 21, 22a, 23b, 24a, 25b, 28, 32b, 33, Bacteriology 10a, 12b, 13a, 14b.

Students making Biology their main subject must include one course from 99, and may also include Biology 26 and 27 among those selected.

4. Extra-mural students may take Biology 1, 2, 10a and 21 in the summer of 1925. The laboratory work of these courses will be offered in the Summer School. For the winter of 1925-26 and the summer of 1926, Biology 1, 2, 10b, 22a, (marked with an asterisk) may be taken, but no examination in these may be written until the laboratory work has been completed. This will be offered in the Summer School of 1926.

- 5. For the qualification of Science Specialist in the Department of Education of Ontario a degree with honours in two of Biology, Chemistry, Physics is required. In Biology the student should include in his course five to seven of 1, 2, 10a, 10b, 11, 12a, 13b, 21, 22a, 23b, and one other course selected with the approval of an instructor.
- 6. As a preparation for any branch of Agriculture students should take as many as possible of Biology 1, 2, 10a, 10b, 11, 12a, 13b, 15a, 16b, 18, 21, 22a, 23b, 33.
- 7. As a preparation for post-graduate work in Plant Pathology students should take Biology 1, 2, 10a, 10b, 11, 12a, 13b, and 18.
- 8. As a preparation for Forestry, the course should include Biology 1, 2, 10a, 10b, 12a, 13b, 18, 20, and 33.

COURSES OF INSTRUCTION

*BIOLOGY 1. ELEMENTARY BOTANY AND ZOOLOGY.

(i) An outline study of the structures, activities and life relations of seed plants, ferns and mosses.

The dissection, drawing and discussion of seeds, roots, stems, buds, leaves, flowers, fruits, sporangia.

Lectures and experiments in plant physiology.

Outline of forest conservation.

Field work to study the relations of plants to their environment.

Textbook: Transeau, General Botany.

(ii) An elementary course in General Zoology, with special reference to the fauna of Canada, Elementary Physiology.

Dissection of the earthworm, clam, locust, frog, and mammal. Scalpel, forceps and scissors are required for these dissections. Careful drawings will be made.

Textbooks: Kellogg, Elementary Zoology.

Colton, Practical Zoology.

Lecture—Sec. A, Tuesday at 9; Sec. B, Thursday at 9. Laboratory—Sec. A, Monday and Wednesday, 2 to 4. Sec. B, Tuesday and Thursday, 2-4.

Professor MacClement.

*BIOLOGY 2. GENERAL BOTANY AND ZOOLOGY.

Lectures in General Biology, including the classification, morphology, physiology, and development of plants and animals; variation, evolution, heredity; and the habits and economic importance of animals.

Microscopic study of the protozoa and hydra, and the dissection and drawing of the crayfish, fish, bird and mammal.

Microscopic study of algae and fungi.

Textbook: Woodruff, Foundations of Biology.

Lectures, Tuesday and Thursday at 10. Laboratory, Monday, 2-4.

Professor Klugh.

BIOLOGY 3. MEDICAL BIOLOGY.

Lectures, Tuesday and Thursday at 1.

Laboratory—Sec. A, Monday, Wednesday, and Friday, 10-12. Sec. B. Tuesday and Thursday 2-4, Saturday 10-12.

For further particulars see Medical Calendar.

Professor Earl.

BIOLOGY 4. EVOLUTION, HEREDITY AND EUGENICS.

A consideration of the facts upon which the evolution concept is founded; the theories which have been advanced to explain how evolution takes place; the laws of inheritance and related phenomena in plants and animals, with practical applications; inheritance in man and its possibilities.

This is a lecture course intended for those who are not proceeding farther in biology. It will not be accepted in lieu of Biology 2 as a prerequisite for Honour courses.

Prerequisite-Biology 1.

Text—Newman, Readings in Evolution, Genetics and Eugenics.

Lectures, Monday, Wednesday, and Friday at 8.

First Term, Professor MacClenent. Second term, Professor Earl.

*BIOLOGY 10a and 10b. PLANT MORPHOLOGY.

A study of the development, structure, modification and reproduction of plants. The microscopic study of materials to illustrate them. Permanent records of observations.

Textbook: Coulter Barnes and Cowles, Textbook of Botany, Vol. I, Pt. I.

Prerequisites-Biology 1 and 2.

Lecture, Tuesday at 8. Laboratory, Monday and Friday 2-4.

Professor Earl.

BIOLOGY 11. PLANT PHYSIOLOGY.

A series of experimental studies of the chemical and physical activities of plants, with class discussions.

Prerequisites—Biology 1 and 2, and Chemistry A1.

Lecture, Monday at 11. Laboratory, Monday and Friday 2-4.

Dr. Reed.

BIOLOGY 12a. PLANT ANATOMY.

The study of the anatomical structure of plants, and the structural modifications due to special environment.

Prerequisites—Biology 1 and 2.

Lectures, Monday and Wednesday at 9. Laboratory, Friday 2-4.

Professor MacClement.

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BIOLOGY 13b. PLANT ECOLOGY, GEOGRAPHICAL.

The relations of plants to latitude, altitude, climate, and other distributive factors.

Lectures, Monday and Wednesday at 9. Laboratory, Friday 2-4.

Professor MacClement.

BIOLOGY 14a. MICROTECHNIQUE.

Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting, and the use of the microscope. The preparation of permanent mounts of plant and animal structures.

Prerequisites—Biology 1 and 2, Chemistry A 1.

Laboratory, hours to be arranged. Professor Klugh

BIOLOGY 15a. EVOLUTION AND GENETICS.

A consideration of data and concepts of organic evolution; the principles of genetics; experimental work on variation and heredity in plants and animals.

Prerequisites-Biology 1 and 2.

Textbook: Castle, Genetics and Eugenics, 1924.

Lectures, Monday and Wednesday at 9; Laboratory, Monday 1-4.

Professor Earl.

BIOLOGY 16b. GENETICS.

A study of the physical and physiological aspects of the mechanism of heredity, and of heredity in relation to problems of plant and animal breeding and eugenics; exercises and experimental work.

Prerequisites—Biology 1 and 2 and preferably 15a.

Hours to be arranged. Professor Earl.

Not offered in 1926.

BIOLOGY 17a. PALEOBOTANY.

The methods and forms of plant fossilization, their geological distribution, and their relations to living forms.

Prerequisites—Biology 1, 2, 10, Chemistry A1, Geology 1, 2.

Lecture and laboratory hours to be arranged. Professor MacClement. Biology 18. Economic Fungi.

Class and laboratory studies of the fungi producing the more important plant diseases.

Prerequisites—Biology 1, 2, 10, 12a.

Lecture, Thursday at 8. Laboratory, Tuesday and Thursday 2-4.

Professor MacClement.

BIOLOGY 19. GENERAL PHYSIOLOGY.

Selected topics in fundamental cellular physiology from a chemical viewpoint. Laboratory work, reading and conferences.

Prerequisites—Biology 11 and Chemistry 2 and 21.

This course may be taken by properly qualified students as a half-course in the first term, or as a full course throughout the session.

Dr. Reed.

BIOLOGY 20. TAXONOMY OF PLANTS.

The principles of classification applied to Algae, Fungi, Mosses, Ferns, Fern Allies, and Flowering Plants.

A laboratory course of six hours per week for Honour credit.

Prerequisites-Biology 1, 2, 10.

Laboratory hours to be arranged. Professor MacClement.

*BIOLOGY 21. CANADIAN ZOOLOGY.

The classification, distribution, life histories, habits and economic importance of the commoner and more important Canadian animals. The study of museum specimens representative of each group.

Prerequisites—Biology 1 and 2.

Lectures, Tuesday and Thursday at 11. Laboratory, Friday 2-4.

Professor Klugh.

*BIOLOGY 22a. ANIMAL HISTOLOGY AND INVERTEBRATE ANATOMY.

The microscopic study of animal tissues. Dissection of typical invertebrates and study of slides of these animals.

Prerequisites—Biology 1 and 2.

Textbook: Hegner, College Zoölogy.

Lecture, Wednesday at 11. Laboratory, Tuesday and Thursday, 2-4.

Professor Klugh.

*BIOLOGY 23b. VERTEBRATE ANATOMY AND PHYSIOLOGY.

Dissection of the frog, bird, and cat.

Prerequisites—Biology 1, 2, and 22a.

Textbook: Hegner, College Zoology.

Marshall, The Frog.

Davison, Mammalian Anatomy with special reference to the cat.

Burton-Opitz, Elementary Manual of Physiology.

Lecture, Wednesday at 11. Laboratory, Tuesday and Thursday, 2-4.

Professor Klugh

BIOLOGY 24. ANIMAL ECOLOGY.

The physical and biological factors of the environment, succession, convergence, associations, and cenoses. Practical applications of ecology.

Lectures, Monday, Wednesday, and Friday at 10. Professor Klugh.

BIOLOGY 26. ANIMAL PHYSIOLOGY.

Study of the general principles of Physiology, and the physiological investigation of blood, circulation, respiration, muscle, and nervous system. The physiology of digestion, metabolism, excretions, and internal secretions.

Prerequisite—Biology 1 and 2 (or 3), 22a, 23b.

Hours to be arranged. Dr. G. S. Melvin.

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BIOLOGY 27. EMBRYOLOGY.

The Embryology of the pig and chick.

Prerequisites—Biology 1 and 2 (or 3), 22a, 23b, 26.

Hours to be arranged. Dr. H. G. Ettinger.

BIOLOGY 28. COMPARATIVE ANATOMY OF VERTEBRATES.

A detailed study of the anatomy of the frog, bird, and mammal. Prerequisites—Biology 1, 2, 22a, 23b.

Laboratory, Tuesday, Wednesday and Thursday, 2-4.

Professor Klugh.

BIOLOGY 30. ECONOMIC ZOOLOGY.

Either of the following divisions will constitute a full course:

- (i) Marine and fresh water biology with special reference to the fisheries.
- (ii) Economic Entomology.

Prerequisites—Biology 1, 2, 21, 23b, 24a.

One lecture and four laboratory hours per week to be arranged.

Professor Klugh.

BIOLOGY 32b. CYTOLOGY.

The structure and life-history of the cell. Laboratory work, reading and conferences.

Prerequisites—Biology 10, 22a, 23b.

Hours to be arranged ..

Professor Earl.

BIOLOGY 33. DENDROLOGY.

A study of tree structure, growth and reproduction. The qualities of the various economic woods of Canada. The factors affecting the distribution of hardwood and softwood trees. The chief fungal and insect forest pests. The methods of harvesting and replanting the timber crop. Identification of Canadian timber trees.

Hours to be arranged.

· Professor MacClement.

BIOLOGY 99. READING AND SEMINAR COURSE.

Honour students making Biology their main subject may select one of the following options:

(i) EVOLUTION AND GENETICS.

A reading and laboratory course on the theories of evolution and genetics.

Prerequisites—Biology 1 and 2.

Professor Earl.

(ii) ECONOMIC ZOOLOGY.

A reading and laboratory course dealing with the applications of biology to game and fur-bearing animals; the fisheries, etc., etc.

(iii) ANIMAL PSYCHOLOGY.

A reading course on the behaviour of animals and their psychological development.

Prerequisites—Biology 1 and 2, 21, 23b, 24a. Professor Klugh.

(iv) TAXONOMY OF PLANTS.

The principles of classification applied to Algae, Fungi, Mosses, Ferns and Fern Allies, Flowering Plants. A laboratory course of six hours per week for Honour credit. Professor MacClement.

BACTERIOLOGY

PROFESSOR--Guilford B. Reed, M.A., B.Sc., Ph.D. REGULATIONS

- 1. Students in a Pass course taking Biology as a Major may take as a part of the Biology prescription Bacteriology 10a and 12b.
- 2. Students taking Biology as an Honour subject may elect as a part of the Biology prescription Bacteriology 10a, 12b, 13a, and 20.

COURSES OF INSTRUCTION

BACTERIOLOGY 10a.

An introductory course in general Bacteriology, including the structure and physiology of bacteria; fermentation and decomposition, especially in foods; disease and immunity.

Prerequisites: Biology 1, 2, 11, and Chemistry 1.

Lectures, Wednesday and Friday at 9. Laboratory, Tuesday and Thursday, 1-3

BACTERIOLOGY 12b. THE PATHOGENIC BACTERIA, a systematic study of the disease producing organisms; infection and immunity.

Lectures, Wednesday and Friday at 9. Laboratory, Tuesday and Thursday 1-3.

BACTERIOLOGY 13a. THE MICROBIOLOGY OF FOODS AND WATER SUPPLIES.

Hours to be arranged.

BACTERIOLOGY 20. RESEARCH IN GENERAL PHYSIOLOGY AND BACTERIOLOGY.

GEOLOGY

Professor-M. B. Baker, B.A., B.Sc., F.G.S.A.

ASSISTANT PROFESSOR—B. Rose, B.Sc., Ph.D., F.G.S.A.

REGULATIONS

- 1. Mineralogy 1 is prerequisite to Geology 2 and 10. Mineralogy 2(i) is part of Geology 10.
- 2. For a Minor in Geology students will take Mineralogy 1 and Geology 1, 2, and 13.
- 3. For a Major in Geology students will take either the inorganic and economic side, or the organic paleontological side. In the first case they will select Mineralogy 1 and Geology 1, 2, 10, 17; in the second case Mineralogy 1 and Geology 1, 2, 13, and 17.
- 4. For Honours in Geology, students will again select either the inorganic or the organic side and will take course 99 and from four to six courses from either of the following groups:
 - A. Mineralogy 1 and Geology 1, 2, 10, 14, and 15.
 - B. Mineralogy 1 and Geology 1, 2, 13, 18, and 19.

COURSES OF INSTRUCTION

GEOLOGY 1. INTRODUCTORY COURSE IN PHYSIOGRAPHY AND GENERAL GEOLOGY.

The following topics indicate roughly the scope of the course: Forces operating on the earth's surface,—the atmospheric forces, streams, glaciers, waves, etc.; the land forms produced by these forces; volcanism; earth movements; structure of the earth's crust; mountain formation; kinds of rocks and their formation; fossils; outline of the history of the earth, including the evolution of its plant and animal life. In addition to those topics which are more particularly the province of Geology, consideration is given to the various types of topography and their method of formation, the atmosphere, its temperature, moisture and circulation, storms, climate, ocean currents, tides, etc., and, as far as time will permit, their influence on the human race will be indicated. This course will prove valuable to students who contemplate teaching Physical Geography in our schools.

The lectures are illustrated by maps, models, lantern slides, and specimens.

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LABORATORY WORK will consist of the examination of typical specimens of fossil plants and animals, and of hand specimens of the more common rocks, together with the field excursions, the expenses of which are covered by the laboratory fee.

Text-book: Norton, Elements of Geology.

Monday, Wednesday, and Friday at 11. Professor Rose.

GEOLOGY 2. STRUCTURAL AND PHYSIOLOGICAL GEOLOGY, AND THE GEOLOGY OF CANADA.

- (i) The principles of earth movements, deformation, faulting, mountain formation and volcanism are covered in a more general and more advanced way than in Geology 1.
- (ii) Advanced consideration of surface processes, action of winds, streams, waves, glaciers, etc., various types of marine and continental sedimentation, and the development of land forms, map reading and interpretation.
- (iii) In this course special attention will be given to stratigraphical Geology, and the distribution of the various rock formations in Canada. The topography as well as the structural make-up of the Dominion is studied. The climatic and economic differences of the various portions of Canada are explained.

Monday, Wednesday, and Friday at 9. Professor Rose.

GEOLOGY 10. ELEMENTARY PETROGRAPHY.

This course is essentially on igneous Geology and Petrography, and will consist of lectures and discussion on the geological occurrences of igneous rocks, the processes of crystallization from magmas, the forms assumed, the textures, and the metamorphic changes that are produced in the intrusive mass itself, and on its surroundings. The lectures will be illustrated by projections of thin sections of rocks, and will be supplemented by laboratory work on hand specimens. Students taking this course will include Mineralogy 2 (i) as part of the work.

Text-books:

Luquer, Minerals in Rock Sections.

Pirsson, Rocks and Rock Minerals.

Wednesday at 8; Tuesday and Thursday at 10. Professor Baker.

GEOLOGY 13. HISTORICAL GEOLOGY.

Continental evolution and geologic life development with special reference to North America.

Text-book: Chamberlin and Salsbury, College Geology.

Tuesday and Thursday at 9. Professor Rose.

GEOLOGY 14. ADVANCED PETROGRAPHY.

A course of lectures will be given on the microscopic characters and classification of igneous rocks, and on their origin, geological form, and general field characters. The lecture work will be supplemented by assigned special reading and by laboratory work with both hand specimens and microscopic slides. Special attention will also be paid to the metamorphic rocks.

Tuesday at 1 and 2. Professor Baker.

GEOLOGY 15. ECONOMIC GEOLOGY.

The work in this class is an illustration of the principles of ore deposition. For this purpose type deposits in the largest producing districts throughout the world are studied in some detail. It is of course impossible to treat of all products, but the basis of classification and the fundamental principles underlying economic deposits are studied with particular reference to iron, copper, nickel, zinc, lead, silver, gold, aluminum, peat, coal, gas, oil, salt, abrasive and refractory materials. A few lectures on building stone, and on clays and the manufacture of clay products will be given.

Within one hundred miles of Kingston a greater variety of economic minerals and ores is mined than in any similar area in Canada, and possibly in the world. Through the kindness of the managers, advanced students may visit the various mines and thus gain valuable information regarding economic Geology.

Monday at 10, Tuesday and Wednesday at 11. Professor Baker.

GEOLOGY 17. FIELD AND LABORATORY GEOLOGY.

The laboratory exercises in this course are designed to illustrate by means of specimens, models, photographs, maps, and sections, the principal original and secondary structures of rocks; the origin and mode of occurrence of rocks in the earth's crust, their cycles of alteration and change, their interpretation and representation in geological surveys and maps.

The field work comprises observations upon the weathering of rocks, shore phenomena, glacial phenomena, igneous and sedimentary rocks, faulting, folds, joints, cleavage, schistosity. It gives practice in methods of surveying; in geological mapping, and construction of sections; in measuring the thickness of strata; and in determining the relative ages of geological structures. The preparation of a map to scale from actual field work done by the student is required.

Six working hours a week will be arranged to suit the class at the beginning of the fall term.

Professor Rose.

Geology 151

GEOLOGY 18. SYSTEMATIC PALEONTOLOGY.

A study of invertebrate and vertebrate fossils, their classification, identification, and distribution, both geologic and geographic.

Text-book: Woods, Paleontology.

Lectures, Tuesday and Thursday at 11.

Two laboratory hours per week to be arranged to suit students' time-table. Professor Rose.

GEOLOGY 19. STRATIGRAPHY.

The problems of sedimentation and the sedimentary rocks.

Lecture, Wednesday at 10.

Four laboratory hours to be arranged. Professor Rose. Reference Book: Grabau, The Principles of Stratigraphy.

GEOLOGY 99. READING AND SEMINAR COURSE IN GEOLOGY FOR HONOUR STUDENTS.

MINERALOGY

Professor—E. L. Bruce, B.Sc., M.A., Ph.D., F.R.S.C. Assistant—G. D. Furse, B.Sc.

REGULATIONS

- 1. Students taking Mineralogy 1 must have matriculated in Chemistry or have passed in Chemistry 1 or take Chemistry 1 concurrently.
- 2. Students taking a Minor, a Major, or Honours in Mineralogy must include among their courses, besides the prescribed courses in Mineralogy itself, such courses in Geology, Chemistry and Physics as are necessary to secure proper preparation and balance. The details should be arranged in consultation with the Professor. Some of the requirements regarding courses in Geology to be included are stated below.
- 3. Mineralogy 1, 2, and 11 must be taken in the order named and are prerequisite to all other courses in Mineralogy. The order in which the other courses are taken may be varied to suit the individual case. In special cases 2 and 11 may be taken concurrently.
- 4. For a Minor a student will take Mineralogy 1, 2, 11, and Geology 1. For a Major a student will take Mineralogy 1, 2, 11, 12 and Geology 1. For Honours a student will take course 99 and four to six courses from one of the following groups:
 - A. Mineralogy 1, 2, 11, 12, 15a, 16b and Geology 1.
 - B. Mineralogy 1, 2, 11, 13, 14, and Geology 1.
- 5. Students in Mineralogy are expected to take part in the two field excursions which are made during October and November.
- 6. Each student in the department is supplied with a locked cabinet containing about 150 mineral specimens.

COURSES OF INSTRUCTION

MINERALOGY 1.

A course in Elementary Crystallography, Blowpipe Analysis and Descriptive and Determinative Mineralogy of about 100 common or more important minerals together with practical work in their identification.

Prerequisite—Matriculation Chemistry or Chemistry 1, or Chemistry 1 taken concurrently.

Text-book: Ford, Dana's Manual of Mineralogy.

Lectures: Wednesday at 10, Tuesday 1-3. Professor Bruce.

MINERALOGY 2.

- (i) OPTICAL MINERALOGY.
- (ii) PHYSICAL MINERALOGY AND CRYSTALLOGRAPHY.

An advanced course in the characters of crystals and crystal measurements.

Prerequisites—Mineralogy 1, Chemistry 1, Physics 1.

Lectures: Wednesday at 8, and Friday at 10.
Laboratory: Two hours a week, to be arranged.

Professor Bruce.

MINERALOGY 11. DESCRIPTIVE AND DETERMINATIVE MINERALOGY.

A course describing the properties, occurrence and uses of minerals.

Prerequisites-Mineralogy 1, Chemistry 1.

Lecture: Wednesday at 1. Laboratory: Wednesday, 2-4.
Professor Bruce and Mr. Furse.

MINERALOGY 12. ADVANCED DESCRIPTIVE AND DETERMINATIVE MINERALOGY.

A course covering the rarer mineral species and mineral alteration.

Lecture: Friday at 11; Laboratory: 1-3. Professor Bruce.

MINERALOGY 13. MINERAL TECHNOLOGY.

A study of alloy minerals, abrasives, refractory materials, fertilizers, building stones, gem stones, etc. This course deals chiefly with the occurrence and utilization of the non-metallic minerals.

Lectures: Tuesday and Thursday at 9. Professor Bruce**

MINERALOGY 14. MINERALOGRAPHY.

The study of opaque minerals with the metallographic microscope Paragenesis of ores.

Lectures and Laboratory: Three hours per week, to be arranged.

Professor Bruce

MINERALOGY 15a. ADVANCED CRYSTAL OPTICS.

Lectures and laboratory work on the optical properties of crystals including minerals, artificial products, etc.

Lectures and Laboratory: Three hours per week, to be arranged.

First term. Professor Bruce.

MINERALOGY 16b. CHEMISTRY OF MINERALOGY.

A general survey of mineral density and of the processes involved in mineral deposition. A study of inversion phenomena, monotropy, enantiotropy, eutetics, solid solutions, etc., with their geological and technological significance.

Three hours per week, lectures and reading to be arranged

Second term. Professor Bruce

MINERALOGY 99. READING AND SEMINAR COURSE.

An advanced course for Honour students making Mineralogy their main subject.

Professor Bruce.

GRADUATE COURSES

I. REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

- 1. Pre-requisite work. A candidate for the degree of Master of Arts must have taken the degree of Bachelor of Arts in some preceding academic year.
- 2. Application. Application for permission to become a candidate for the degree of Master of Arts must be made to the Registrar. The applicant, if not a graduate of Queen's University, should send an official certificate giving full details of his previous academic training, including courses taken and grades received, together with a marked Calendar showing the content of the courses. He should also state in what field he desires to carry on his studies. The amount and distribution of work will be determined in each case by the Committee on Studies on the basis of the general regulations contained in sections 3 and 4 below:
- 3. Character of the work. The degree of Master of Arts is given, not on the ground of general attainments, but in recognition of the candidate's wide knowledge of a special field of study. A candidate must ordinarily take advanced work in the two main subjects of his undergraduate Course. With special permission, however, he may concentrate on one of his special subjects or he may count work in a third related subject if it can be shown to belong to a consistent plan of study.

The work prescribed shall consist of the following:

- (a) Advanced lecture courses.
- (b) Directed special studies, with reports, essays, and conferences.

A thesis or other piece of independent work will be required from all candidates.

4. Amount of work. The work shall be the equivalent of four Honour courses for those who have taken the degree of Bachelor of Arts with Honours in two special subjects, and of five Honour courses for those who have taken a Pass degree with first division in a total of at least three courses beyond courses 1 and 2 in the special subjects. Those who do not qualify under these conditions must repeat earlier work to bring up their standing.

The above prescription is for those who have taken the degree of Bachelor of Arts under the present system of studies or who have equivalent standing in their two special subjects.

The work for the degree of Master of Arts for those who have taken the degree of Bachelor of Arts with Honours in connection with the Special Course for Teachers will be the equivalent of five courses.

- 5. Standing required. The degree of Master of Arts will be conferred upon a student who, having satisfied the conditions mentioned above, makes at least sixty-six per cent. in each of the prescribed courses.
- 6. Fees. The fees charged are the same as for undergraduate work. See FEES.

Departmental outlines of work that may be counted towards the degree of Master of Arts are given below:

Details of courses referred to by numbers will be found under the various Departmental announcements.

Latin

Lecture courses: 100, 101, 102.

Directed special studies in Latin Syntax and Roman History.

Greek

Lecture courses: 100, 101, 102.

Directed special studies in Greek Art and Archaeology and in Greek Philosophy and Religion.

German.

Lecture courses selected from 11a, 12b, 22a, 23b, 31a, 33b.

Directed special studies consisting of the option under German 99 not counted towards the degree of B.A. with Honours.

French.

Lecture courses: 14 and 30. If only one of these is chosen it must be 14.

Directed special studies to be determined upon consideration of the candidate's previous Course.

Spanish

Lecture courses: Any courses numbered from 20 to 29.

Directed special studies based on:

(a) Literatura Caballeresca.

- (b) Escritores Místicos Españoles.
- (c) Dramáticos contemporráneos a Lope de Vega.
- (d) Calderón considerado como dramático religioso.
- (e) Espronceda y la Sociedad Española de la Época Romántica.

English.

Lecture courses: 21b, 36b, 41a, 42a, 50b.

Directed special studies in one of the following: Canadian and American Literature, The Elizabethan Lyric, Sir Walter Scott, Thackeray.

History.

A. CANADIAN HISTORY (1763-1847).

Lecture courses: History 30a and 31b.

Directed special studies: Candidates will attend seminars, either in Queen's University in winter, or at the Dominion Archives in summer, and must write a thesis based on original printed and MS. sources. Work under the Economics department in Canadian economic history may count towards this course of study.

B. MODERN AND MEDIAEVAL HISTORY

Lecture courses: History 14b and 15a.

Directed special studies in one of the following periods: The Age of Elizabeth, The Nineteenth Century, The Later Middle Ages.

Political and Economic Science.

Lecture courses: A selection from the following half courses: 11b, 16a, 21b, 24a, 30a, 36b.

Directed special studies in The Government of Canada, in Canadian Economic History, or in Problems in Banking, Trade or Finance.

Seminar courses offered in Honour B.A. prescription: 99(1), Imperial and International Problems from the Canadian standpoint; 99(2), The Business Cycle in Canada.

Philosophy.

Lecture courses: Candidates should, after consultation with the department, choose courses from those numbered 26, 47 if not already taken, 27a, 46b, 79, 80, 99.

Directed special studies: Candidates should, with the advice of the Department, select a field of work having a certain unity of interest, and their special subject for private study should be within this field.

Mathematics.

Lecture courses: Any of the half-courses numbered from 20 to 34.

Directed special studies: Certain half-courses from 20 to 34 may be taken in the form of directed special studies, as advised by the Department and approved by the Committee on Studies.

Physics

Lecture courses: A minimum of three lectures a week on topics selected from half-courses 27 to 34.

Directed special studies: Physics A35.

Chemistry

Lecture courses: Two courses selected from 45, 101, 121, 106b, 141b, 171a.

Directed special studies selected from 201, 221, 231, 241, 271.

Biology

Lecture courses to be selected in consultation with the Head of the Department from 15a, 16b, 17a, 18, 19, 20, 24a, 25b, 26, 27, 28, 30, 32b, 33. By arrangement with the Departments concerned, some courses in Bacteriology may be substituted for courses in Biology.

Directed special studies in continuance of work already begun.

Geology

Lecture courses: 13 and 19 for those who have covered Honour Group A; and 10 and 15 for those who have covered Honour Group B. See section 4 of the Departmental Regulations.

Directed special studies in one of the fields of paleontology, stratigraphy, petrography, or petrology.

Mineralogy

Lecture courses: 13 and 14 for those who have covered Honour Group A; and 12, 15a and 16b for those who have covered Honour Group B. See section 4 of the Departmental Regulations.

Directed special studies along one of the general lines of Group A or Group B, with Thesis.

II. REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

- 1. Pre-requisite work. Students who wish to begin a Course in the Faculty of Arts leading to the degree of Doctor of Philosophy must have the degree of Bachelor of Arts with Honours or equivalent standing. Those intending to do their work in Queen's Theological College must have the degree of Bachelor of Divinity.
- 2. Application. Application for permission to become a candidate for the degree of Doctor of Philosophy must be made to the Registrar. The applicant, if not a graduate of Queen's University, should send an official certificate giving full details of his previous academic training, including courses taken and grades received, together with a marked Calendar showing the content of the courses. He should also state in what field he desires to work. The Standing Committee, after satisfying itself as to the ability of the candidate to proceed, will prescribe a suitable Course.
- 3. Character of the work. The degree of Doctor of Philosophy is given not on the ground of long and faithful work, but in recognition of a candidate's mastery of some particular field of study and of his power to offer original treatment of a fitting subject or to carry on original research.

The candidate's mastery of his field will be tested by examination and his ability to handle a problem by a thesis.

- 4. Field of Study. The Course shall consist of a unified programme of study ordinarily not involving work in more than two Departments, and shall be approved by the Standing Committee.
- 5. Thesis. The subject of the Thesis must be approved at least one year before the date of the Final Examination. Not fewer than three typewritten copies must be submitted one month before the date of the Final Examination, together with a Summary. The Thesis must be accepted by the Examination Board before the candidate can proceed to the Final Examination.

A candidate shall ordinarily be required to publish his thesis, either separately or in a learned journal, though in special cases the publication of a summary of the results obtained may be accepted.

6. Allowance for M.A. work. The degree of Master of Arts shall count towards the degree of Doctor of Philosophy both as regards work and residence to an amount to be determined by the Standing Committee.

- 7. Language requirements. At least one year before the Final Examination candidates who have not passed French 2 and German 2, or their equivalents, must satisfy the Standing Committee of their ability to make satisfactory use of these two languages. A department may, however, subject to the approval of the Standing Committee, require in place of French or German some other modern language.
- 8. Period of study. The minimum length of the Course shall be three years from the degree of Bachelor of Arts with Honours or its equivalent.
- 9. Residence. The minimum graduate residence required at the University is the equivalent of one full session. No candidate will be allowed to pursue any part of his Course away from the University unless he can satisfy the Standing Committee that he has proper facilities for study and research.
- 10. Examinations. Written examinations, or other written tests, will be conducted at the end of each session in which a candidate is registered. A candidate may at any time be requested to discontinue his Course.

The Final Examination will be on the whole field of the candidate's study. It will be held at the University on a date fixed by the Standing Committee and will be oral, though a written test may be required in addition.

The Standing Committee shall appoint an Examination Board consisting of the members of Staff of the Departments concerned, together with not fewer than two representatives from other Departments.

- 11. Regulations Retroactive. Candidates who have already registered for the degree of Doctor of Philosophy shall be required to comply with all regulations introduced after the date of their first registration, unless the Standing Committee consider that this will entail undue hardship.
 - 12. Fees. The fees shall be as follows:

\$10 for each Session's registration.

\$10 for each Session's examination.

\$100 for tuition for the whole Course.

\$50 on graduation.

Laboratory fees additional.

The following outlines indicate the nature of the work required by the Departments that offer courses leading to the degree of Doctor of Philosophy:

Greek

Candidates in Greek will receive direction in a group of studies, including the general literary history of the classical period, a survey of art and archaeology in Greek lands, and extended reading in poetry and philosophy. Special work will be arranged, if desired, covering part of the Hellenistic age, so as to suit those who may be interested in the society and culture of the eastern Roman provinces and in Christian origins.

Germanics

The course in Germanics presupposes a ready and an accurate command of literary High German, both written and oral.

The work is divided as follows:

A

- 1. A general and connected knowledge of the cultural and political history of Germany.
 - 2 A general knowledge of the history of German literature.
- 3. A general knowledge of the history of the Germanic languages, more particularly of German, with a reading knowledge of some of the principal literary monuments of Gothic, Old High and Middle High German and Scandinavian (Swedish, Dano-Norwegian) and Netherlandish.

В

- 1. A special knowledge of the period of German literature from 1750 to 1832, with particular reference to Lessing, Herder, Goethe, and Schiller, and their principal works.
- 2. A detailed study of any other restricted period of German literature from which the subject of the dissertation is taken.
- 3. A dissertation indicating independence of research and originality of treatment taken from any period and subject of German literature or of the German language.

History

A. CANADIAN HISTORY.

The attention of candidates for the doctorate in History is called to the outline of work given above for the degree of Master of Arts.

The Department of History has arranged research work in Canadian History to be conducted by lectures and seminars during the months of July and August at the Dominion Archives, Ottawa.

The following is the scope of the field of study:

- (a) A history of French institutions transferred to Canada during the French period (see prescription for History 20a).
- (b) The history of Canada from 1763 to 1847, studied throughout from first-hand printed sources.
- (c) The development of British colonial theory and practice from Edmund Burke to Lord Durham.
- (d) Detailed study from first-hand manuscript and printed authorities, preferably at the Dominion Archives, of a special subject to be fixed in consultation with the Professor of History. On this subject a thesis will be written and a bibliography compiled.
- (e) In the final examination the candidate's knowledge of British law and institutions founded on Erskine May's Constitutional History of England will be tested.

B. MEDIAEVAL HISTORY.

Provision will be made for research in The Later Middle Ages and the work done will count towards the degree of Ph.D. in Church History.

Political and Economic Science

The course prescribed for candidates for the degree of Ph.D. who are taking a substantial part of their work in the field of Political and Economic Science will in all cases include advanced study of Economic and Political theory, and the study of one or more of the following fields, including special investigations, under the direction of members of the Department, into their Canadian aspects: Economic History, Public Finance, Private Finance, the Labour Movement, Comparative Government, Constitutional and International Law.

Philosophy

Candidates will, in consultation with the Department, select their work in one field of study, e.g., Logic, Ethics, Ancient Philosophy. They will be required to show knowledge of the history of their selected subject and a more detailed knowledge of certain philosophical classics, to be read in the original language. The subject of their thesis should be related to their field of study.

Physics

The work will consist of advanced lecture courses, prescribed reading of standard works on Physics and of experimental work in the laboratory. This experimental work will be on some subject for original investigation. The candidate will be at all times under the direction of members of the staff to whom he may come for assistance.

QUEEN'S THEOLOGICAL COLLEGE.

Queen's Theological College offers courses for the degree of Doctor of Philosophy in Old Testament Language and Literature, New Testament Language and Literature, and Church History. Outlines are given in the Calendar of the Theological College.

DEGREES, MEDALS, SCHOLARSHIPS, AND PRIZES,

1924

DEGREES

HONORARY DEGREES Degree of LL.D.

Bell, J. Mackintosh	Almonte, Ont.
Biggar, H. P	.London, England.
Kidd, Dr. J. F.	Ottawa, Ont.
Knight, Dr. A. P.	Kingston Ont
MacKay, Dean I. A	McCill University
mackay, Dean I. A	Montreal, Que.
Malan Dan Walton C W	Montreal, Que.
McLay, Dean Walter S. W	. McMaster University,
	Toronto, Ont.
Mair, Charles	.Calgary, Alberta.
Mitchell, Professor S. A	. University of Virginia,
	University, Va.
Ruddick, John A	Ottawa, Ont.
200000000000000000000000000000000000000	•
Degree of D.I),
Kannawin, Rev. W. M	Hamilton Ont
Smith, Rev. G. Watt	Mayvilla Ont
Smith, Rev. G. Watt	. Maxville, Ollo.
	T I MY O ST
DEGREES BY EXAMIN	NATION
Degree of M.A	4
Brackenbury, G. L., B.A	. Wingham, Ont.
Campbell, N., B.A	. Hamilton, Ont.
Cross, H. F., B.A.	. Madoc, Ontario.
Johnston, V. K., B.A.	. Gananoque, Ont.
Massecar, Ethelyn, B.A	.Dunnville, Ont.
Merkley, L. R., B.A.	Williamsburg, Ont.
Muir, Peter, B.A.	Toronto, Ont.
Munro, Lidy F., B.A.	Edmonton Alberta
MacNaughton D M D A	D D 1 Detembersuch Ont
MacNaughton, R. M., B.A.	. R. R. I, Feterborough, Oht.
Oates, T. W., B.A., B. Com.	
O'Brien, Elizabeth, B.A. (Sister Patricia)	
Vincent, H. B., B.A.	Picton, Ont.
D (DA (111)	**
Degree of B.A. (with	Honours)
Beehler, Leah (History and Economics)	Ottown Ont
Best, Alice G. (Spanish and French)	Ottown Ont
Dest, Ance G. (Spanish and French)	UITAWA UNT.
Death Manager 17 (17 11 1 1 17 1)	T
Booth, Margery E. (English and French). Bosman, J. A. (Chemistry, Physics and	Toronto, Ont.

..... Belleville, Ont.

Clarke, Helen G. (Mathematics and

Biology)

Cross, Eric W. B. (History and Economics). Madoc, Ont.
Crowther, K. F. (Economics and History). Hamilton, Ont.
Deagle, R. R. (Science)Brantford, Ont.
Delan Liliag V (Finglish and History) Landon Ont
Dolan, Lilias K. (English and History)London, Ont. Duncan, Mary P. (English and History)Westport, Ont.
Duncan, Mary F. (Engine and History) Westport, Ont.
Embree, Emma (English and Mathematics). Eriksdale, Man.
Garrett, Evelyn C. (English and History). Walkerville, Ont.
Granam, Gerald S. (History and
Economics) Belle River, Ont.
Graham, Gerald S. (History and Economics)
Hartlath (Greig (Kinglish and History)
(Sister Mary John) Walkerton, Ont. Hickey, Anna B. (English and History (Sister St. James) Ford, Ont. Horking C. Y. (Physics and Chamistry) Kinmount Ont.
Hickey, Anna B. (English and History
(Sister St. James) Ford, Ont.
Tropkins, C. 1. (Thysics and Onemistry)
Jolliffe, H. R. (Latin and Greek)Kingston. Ont.
King, C. H. (Latin and Greek)Orangeville, Ont.
Kuehner, A. L. (Physics and Chemistry)
Lenz, Minnie M. (Chemistry and Biology). Bartonville, Ont.
Mildiran Cathonina C (History and
Economics) Strathrov. Ont.
Economics) Strathroy, Ont. Mulligan, S. Kathleen (Biology and
Chemistry) Perth Ont.
Chemistry)
French) Smith's Falls, Ont.
MacCallum, Frances (English and
Economics)
McCredie, Agnes D. (English and History) Ottawa, Ont.
Macdonald E. (Economics and Philosophy). Kingston, Ont.
McKay, D. L. G. (Chemistry and Biology). Elmira, Ont.
Mackenzie, Jean C. (Mathematics and
Physics)
Nelson, Helen M. (Latin and Greek) Smith's Falls, Ont.
Plunkett, Margaret B. (Latin and Greek) Havelock, Ont.
Ralph, J. D. (Latin and Greek)North Augusta, Ont.
Rankin, G. P. (Science)Picton, Ont.
Saunders, Edna M. (Chemistry and
Biology)Kingston, Ont.
Sinclair, R. G. (Chemistry and Biology)Farran's Point. Ont.
Tanner, W. W. (Mathematics and Physics) "Paisley". Ont.
Thompson, Erica S. (French and Spanish). Ottawa. Ont.
Wilson, Della J. (English and History) Vankleek Hill, Ont.
Young, Jessie I. (English and History) Chesley, Ont.
Young, Reba I. (English and History)Trenton, Ont.
C, Carrier and analytic and the control of the carrier and the

Degree of B.A. (Pass)

Ada, A. E. W
Alkenbrack, Mrs. Alma JNapanee, Ont.
Anderson, Maud
Armstrong, Jessie I Kinburn, Ont.
Ault, O. E Brinston, Ont.
Beattie, L. S Brockville, Ont.
Blackburn, Mary Eileen CWestmount, Que.
Bowers, Edra LSulphide, Ont.
Brady, M. J
Breithaupt, F. A
Brown, C. ALondon, Ont.

Duoren W7 T	Tomonto Ont
Brown, W. J.	. Toronto, Onto
Burleigh, Nancy	. Stella, Unt.
Burleigh, Nancy	Fenelon Falls, Ont.
Clancy, J. G.	. Kingston, Ont.
Collins, A. E.	Pombroka Ont
Common Anna E	Via matera Ont
Corrigan, Anna F.	. Kingston, Ont.
Costello, Mary	R. R. 1, Downeyville, Ont.
Courtman, Mary C. (Sister Margaret)	Eganville, Ont.
Delanty, C. A	. Cobourg. Ont.
Douglas, Annie, M	Fargus Ont
Douglas, Aillie, M	Wollootown Ont
Douglas, Della	. Wallacetown, Ont.
Douglas, Margaret Jean	. Kingston. Ont.
Dulmage, J. A. B	Kingston, Ont.
Dunlop, Florence S. Easton, Kathleen	Ottawa, Ont.
Easton Kathleen	Renfrew Ont
Foton Fthal C	Conline Ont
Eaton, Ethel C. Egan, Julia V	Carnsie, Ont.
Egan, Juna v	. Kingston. Ont.
Ellenport, A	. Montreal, Quebec.
Ellis, G. N	. Smith's Falls. Ont.
Field, Rheta T.	Beamsville Ont.
Firth W M	Montreal Quebec
Field, Rheta T. Firth, W. M. Gale, Helen I.	Ottomo Ont
Caralla W. C.	Ottawa, Ont.
Gamble, W. G	Mission City, B. C.
Garvin, Evelyn T. (Sister St. Thomas)	·Kingston. Ont.
Glenn. Eva M	Stella Ont.
Gosse, M	St. John's, Nfld.
Gothard, Marjorie N	Trenton Ont
Graham, Margaret A	Kingston Ont
TT-1- A M.T	Completified Ont
Haig, A. McL.	. Campbelliord, Ont.
Hardiman, B. C.	Fort William, Ont.
Harrison, Marjorie	R. R. 4, Picton, Ont.
Henderson, G. F	.Kingston, Ont.
Henry, Euretta I	Hamilton, Ont.
Hensley C A E	Winning Manitoha
Hensley, C. A. E	. Winnipeg, Manitoba.
Hensley, C. A. E. Hiscocks, W. F.	Winnipeg, Manitoba. Chapleau. Ont.
Hensley, C. A. E. Hiscocks, W. F.	Winnipeg, Manitoba. Chapleau. Ont.
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Maclennan Scholarship in Greek 2H. Dorothy Dowsley, Brockville, Ont.
Dupuis Scholarship in Mathematics 1 Margaret Norris, Ottawa, Ont.
William Moffat Scholarship in Chemistry 1. A. T. Williamson,
Robert Bruce Scholarship A. T. Williamson,
Arts '15 Scholarship E. Merkley, Kingston, Ont.
Williamshurg Ont
Gowan Foundation, No. IJ. J. Wood, Ottawa, Ont. Gowan Foundation (Honours), No. III. K. F. Crowther,
Prize in German 2 Marie Louise Stock,
Tavistock, Ont. Prize in French 2 Marie Louise Stock,
McIlquham Foundation in English for Sarah Galbraith Mosher,
short story— Soda Lake, Alta. Rogers Prize in English 2
Warkworth Ont
Prize of \$10 in Spanish 1
1923-24)
1924-25) Wellington, Ont.
Prisoners of War Scholarship (Session 1924-25)
(R. H. F. Manske, M. Sc.,
MEDALS Macklin, Sask.
Medal in Latin
Medal in GreekJ. D. Ralph,
Medal in FrenchEva Bouchard,
Medal in Spanish C. V. Brooke, Ottawa, Ont. Medal in English Stella Campbella Campb
Medal in EnglishStella Campbell, Orangeville, Ont.
Medal in History. Leah Beehler, Ottawa, Ont. Medal in Economics Eric Cross, Madoc, Ont. Medal in Mathematics W. W. Tanner, Paisley, Ont. Medal in Chemistry A.L.Kuehner, Kitchener, Ont.
Medal in Mathematics
Medal in Chemistry
ARTS RESEARCH FELLOWSHIPS
Travelling \$500
Resident 500 Keith F. Crowther, Hamilton, Ont. Resident 250 Frances MacCallum, Kingston, Ont.

